

```

cagcagttaa  gagaacaaaa  tgaattaatt  cgagaaagaa  gtgaaaagag  tgtagagata  900
acaaaaacagg  atacaaaagt  tgagctggag  actcacaagc  aaactcggca  aggtctggat  960
gaaatgtaca  gtgatgtgtg  gaagcagcta  aaagaggaga  agaaactccg  gttggaactg  1020
gaaaaagaac  tggagttaca  aattggaatg  aaaaccgaaa  tggaaattgc  aatgaagtta  1080
ctggaaaaag  acaccccaga  gaagcaggac  acactagttg  ccctccgcc  gc  1132

```

<210> 257

<211> 519

<212> DNA

<213> Homo sapiens

<400> 257

```

gaattcgtga  cacgaggtgc  tcgagatgaa  ccccgagcgc  cccagctacc  ccatggccctc  60
tctgtacgtg  ggggacctgc  accccgacgt  gaccgaggcg  atgctctacg  agaagttcag  120
cccggccggg  cccatcctct  ccctccgggt  ctgcagggac  atgatcacc  gccgtcctt  180
gggctacggg  tacgtgaact  tccagcagcc  ggcggacgcg  gaactgtgct  tggcacacaat  240
gaattttgat  gttataaagg  gcaagccagt  acgcatcatg  tggctctcag  gtgatccatc  300
acttcgcaaa  agtggagtag  gcaacatatt  cattaaaaat  ttggacaaaat  ccactgcacaa  360
taaagcacta  tatgatcagt  ttctgcgtt  tggtaacatc  ctttcatgta  aggtgggttg  420
tgatgaaat  ggctccaaag  gctatggatt  tgtacacttt  gaaacacagg  aagcagctga  480
aagagctatt  gaaaaaatga  atgggatgct  tctaattga  519

```

<210> 258

<211> 596

<212> DNA

<213> Homo sapiens

<400> 258

```

gctttgccaa  agaacttagaa  gctaagcaga  aatgagctt  aacatcctgg  tttttgtgta  60
gcagtgaggg  cactgccac  aggcgtccac  gagaatgat  tttttgttga  agagatgact  120
gtgagctcat  gttgcagctc  cgtagtgtgg  ataagcaaca  cgctgtcatc  aactatgatg  180
cgtctacgga  tgagcattta  gtgaaggatt  tgggcagcct  caatgggaat  tttgtgaatg  240
atgtaaggat  tccggaacag  acttatatca  ccttgaaact  tgaagataag  ctgagatttg  300
gatatgatac  aaatcttttc  actgtagtac  aaggagaaat  gaggggtccct  gaagaagctc  360
ttaagcatga  gaagtttac  attcagcttc  agttgtccca  aaaatcttca  gaatcagaat  420
tatccaaatc  tgcaagtgcc  aaaagcatag  attcaaaagt  agcagacgct  gctactgaag  480
tgacagacaa  aactactgaa  gcaactgaa  ccgaggaaaa  agccatggat  aattctgcta  540
tgcccctggt  tactccatta  tatgggcagc  cgtcatgggt  ggggatgat  gaggtg  596

```

<210> 259

<211> 595

<212> DNA

<213> Homo sapiens

<400> 259

```

gaattcggca  ccagagaaaa  agcttcaagg  tatattgagt  cagagtcagg  ataatcact  60
tcgagaattt  tcagaaatt  gagaggagct  gcaaatggac  cagcaagcaa  agaaacatct  120
tcaggacagg  ttgatgcat  gtttggagga  gaaagatcag  tatatcagtg  ttctccagac  180
tcaggtttct  cttctaaagc  agcgattaca  gaattggcca  atgaatgttg  atgctcccaa  240
accctccct  cccggggagc  tccaggcaga  agtgcacggt  gacaccgaga  agatggaggg  300
cgtcggggaa  ccagtgggag  gtgggacttc  cgctaaaacc  ctggaaaatg  tccagcaagg  360
agtgaacagt  caggagaatc  tgcttcagcg  ctgtaaggag  acaattgggt  cccacaagg  420
gcagtgcgca  ctgctgctga  gtgagaagga  ggcactgcag  gagcagttgg  atgaaaggct  480
gcaggagctg  gaaaagatga  agggatggt  aataaccgag  agcaatggat  aattctgtga  540
gaccctggaa  ctgaaagaag  atgaaattgc  tcagcttcgt  agtcatatca  aacag  595

```

<210> 260

<211> 994

<212> DNA

<213> Homo sapiens

<400> 260

```

gaattcggca cgaggcgttg cctgccttct tgctgtctat cagcctttct tgcctcttcc 60
ttttcgcttt cctgttcttt ccttttttca aacaaacaag acatgggcaa ccgcagttcta 120
accagagcct ttgaaattat ccatagtttt acagacagct ccaggccatg agccacaatg 180
tcacaaatta ttcttgagca ctgatataaa ttactttagc ggcagagatc 240
acgtgttgct ctcgatgtgg gcagtgctgg aaagggttct ggtatgtctt caaaatgagt 300
ccacgagttt actgagtgtc tacagggtaaa ggaatgaata taagatgtct ttctgatcag 360
aacaggtgtc ccttcacatg agctttacta gactctggga gggaaaagta gccaaagta 420
cttgaaacct tttttaatac ttgttttgct atggtgaaat tatagcagtt atcccaaat 480
gttttaatta tcaaaatact gtctttttaa aaaaaaaaaa agtaaacctt tttaaagcat 540
tagattttac ttgggtttct tttccaaaaa atgctaggtg gacaaggcat tghtaaacatg 600
agtttccttt aagaaccatc agaataataa tttaacatga agaaaactgc tatatctagt 660
agaaataata tctaagattt aacaactaaa gtaccctcac agaatagcac atacccttct 720
gtctcggaca tgggttcaaa tttgaatatg gaaataattt ccttggaagt ccttagaggc 780
aggtcagagg aagtatgcac taagagggaa aggagagaat ggaaataaaa gtacactata 840
tcgagattta tgccttattt tttagcattt tttaaatggt gggctcttca aggtgttttt 900
tgctttttat tagattctata taaataagtt aactagcaat ttgattttgt atttaagcta 960
cacttaactc ttttcttttg tgataattat ttct 994

```

<210> 261

<211> 594

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 538

<223> n = A,T,C or G

<400> 261

```

gaattcggca ccagtgagga tccagctgaa ccatgccaac cgccaggctg cggaggcaat 60
caggaacctt cggaacaccc agggaaatgct gaaggacaca cagctgcacc ttgacgatgc 120
ctctcagagg ccaggacgacc tgaagagaca gctggccatg gttgagcgca gaggccaacct 180
gatgcaggct gagatcgttg atcctcggaa cagacagaga ggcaggagg 240
agtgcccgag caagagctac tggatgccag tgagcgcgtg cagctcctcc acaccagaa 300
caccagctct atcaacacca agaagaagct ggagacagac atttcccaaa tccaggggaga 360
gatggaagac atcgtccagg aagcccgcac cgcagaaagag aaggccaaga aagccatcac 420
tgatgccgcc atgatggcgg agggagctgaa gaaggagcag gacaccagcg ccacacctgga 480
gcggatgaag aagaacatgc agcagaccgt gaaggacctg cagcaccctg tggacgancg 540
tgagcagctt ggcgctgaag ggcgggcaag aagcagatcc agaaaactgga ggct 594

```

<210> 262

<211> 594

<212> DNA

<213> Homo sapiens

<400> 262

```

gaaaagggtg ctggagccaa aggcatagtc aggggttaatg ctcccttttt tttatcccaa 60
atcagatagt gtttaggctt tttcatcaaa tataaaaaac cagcccagtt catggtcat 120
tcggcagcaa cctgagagct ctttacagct cttagacccta aaaggtcaaa agggcgtct 180
atgctcaata tacattttat taccatctc gccccggaca ttaaataaaa ctccaaaaat 240
taaatccggc cctcaaaccc cacaacagga cttaattgac ctacacctca aggtgttaga 300
taataaaaaa aaaaagttgc aattccttgc ctccgctgtg agacaaaacc cagccacatc 360
tcacgcacac aagaacttcc aaacgcctga accacagcag ccaggcgctc ctccagaacc 420
tcctcccccga ggagcttgct acatgtgccg gaaatctggc cactaggcca aggaatgcct 480

```

```
gcagccccgg attcctccta agccgtgtcc catctgtgcg ggacccccact gaaaaatcgga 540
ctgttcaact caccctggcag ccactctcag agaccctgga actctggccc aagg 594
```

```
<210> 263
<211> 506
<212> DNA
<213> Homo sapiens
```

```
<400> 263
gaattcggca cgagcggaaa cttagggggc acgtgagcca cggccacggc cgcataaggca 60
agcacccgaa gcaccocggc ggccgcggta atgctgtgtg tctgcacac caccggata 120
acttcgacaa ataccaccca ggctactttg ggaaagtgtg tatgaagcat taccacttaa 180
agaggaacca gagcttctgc ccaactgtca accttgacaa attgtggact ttggtcagtg 240
aacagacacg ggtgaatgct gctaaaaaca agactggggc tgcctccatc attgatgttg 300
tgcgatcggg ctactataaa gttctgggaa agggaaaagt cccaaagcag cctgtcatcg 360
tgaaggccaa attcttcacg agaagagctg aggagaagat taagagtgtt gggggggcct 420
gtgtcctggt ggcttgaagc cacatggagc gagtttcatt aaatgctaac tacttttttaa 480
aaaaaaaaaa aaaaaaaaaa ctcgag 506
```

```
<210> 264
<211> 600
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 32
<223> n = A,T,C or G
```

```
<400> 264
ggctcgtgaa cacacactga cagctatagg gnaggcggcg gcaccgtccc cgcttcccct 60
cgccggcggg gtgtcccgtc ggccggccctg aagtgaacca taacatgtgc ttgtgagagg 120
aaaggcctct cggagctcgg atcggagctc tacttctcca tcgcccgggt cctggaagat 180
ggaccctgtc agcaggcggc tcaggtgctg atccgcgagg tggccgagaa ggagctgctg 240
ccccggcgca ccgactggac cgggaaggag catcccagga cctaccagaa cctggtgaag 300
tattacagac acttagcacc tgatcacttg ctgcaaatat gtcatcgact aggacctctt 360
cttgaacaaag aaattctcca aagtgttctt ggagtacaaa ctttattagg agctggaaga 420
cagtcctttac tacgcacaaa taaaagctgc aagcatgttg tgtggaaaag atctgctctg 480
gctgcgttgc actgtggaag accacctgag tcaccagtta actatggtag cccaccagc 540
attcgggata cctgtgtttc aagggaagct aatgggaaat acagacttga cgactgtgtt 600
```

```
<210> 265
<211> 534
<212> DNA
<213> Homo sapiens
```

```
<400> 265
gaattcggca cgagtggagg gcccatcatg gcgacgcccc ctaagcggcg ggcggtggag 60
gccacggggg agaaagtgtc gcgtacagag accttcatca gtgacgtgct gcagcgggac 120
ttgcgaaaag tgctggacca tcgagacaa gatatatgagc agctggccaa atacctcaa 180
ctgagaaaatg tcattgagcg actccaggaa ctaagcact cggagttata tatgcaggtg 240
gatttgggct gtaactctct cgttgacaca gtggtcccag atacttcaag catctatgtg 300
gccttgggat atgtgttttt cctggagttg acactggcag aagctctcaa gttccatgat 360
cgtaagagct ctctctcac agagctcagc aacagcctca ccaaggact catgaatatc 420
aaagcccata tccacatggt gctagagggg cttagagaac tacaaggcct gcagaatttc 480
ccagagaagc ctcaccattg acttcttccc cccatctcca gacattaaag agcc 534
```

<210> 266
 <211> 552
 <212> DNA
 <213> Homo sapiens

<400> 266
 gaattcggca ccagggcacc tcgcctcgc cgcgcctagg tggccgggt cgcgcgggt 60
 ggcgcctagg atgaatatca tggacttcaa cgtgaagaag ctggcggcg acgcaggcac 120
 ctctcctcag cgcgcctgac agttcacaga agaaaagcgt ggccaggctg agaagacaga 180
 attggtatgct cacttagaga acctccttag caaagctgaa tgtacaaaa tatggacaga 240
 aaaaataatg aaacaaactg aagtgttatt gcagccaaat ccaaatgcc aagatagaaga 300
 atttgtttat gagaactg atagaaaagc tccaagtcgt ataaacaacc cagaactttt 360
 gggacaatat atgattgatg cagggactga gtttggccca ggaacagcgt atggtaatgc 420
 ccttattaaa tbtggagaaa ccaaaaaaag aattggaaca gcgacagag aactgatcca 480
 aacgtcagcc ttaaattttc ttactccttt aagaacttt atagaaggag attacaaaa 540
 aattgctaaa ga 552

<210> 267
 <211> 551
 <212> DNA
 <213> Homo sapiens

<400> 267
 gaagcctacc agccaggctg cggccccc acccccgcc cagccccc ctgcagcgt 60
 ggaagcggct cggcagatcg agcgtgagcg ccagcagcag cagcacctgt accgggtgaa 120
 catcaacaac agcatgcccc caggacgcac gggcatgggg accccgggga gccagatggc 180
 ccccgtagc ctgaatgtgc cccgacccaa ccaggtgagc gggcccgta tgccacagcat 240
 gctcccgagg cagtggcagc agggcgcctc tccccagcag cagcccatgc caggcttgcc 300
 caggcctgtg atatccatgc agggccaggc ggcctgggt gggcccgga tgccacagct 360
 gcagcacccc agggagcatct caccacgcgc tctgcaagac ctgctcgga cctggaatgc 420
 gccagctccc cctcagcagc aacagcaggt gctgaacatt ctcaaatcaa acccgagct 480
 aatggcagct ttcacaaac agcgcacagc caagtacgtg gccaatcagc cggcatgca 540
 gccccagcct g 551

<210> 268
 <211> 573
 <212> DNA
 <213> Homo sapiens

<400> 268
 gaattcggca ccagggttcc ttgtgggcta gaagaatcct gcaaaaatgt ctctctatcc 60
 atctctcgaa gactctgaag tagacaaaagt aattcaggct caaacctgct tttctgcaaa 120
 cctctccaat ccagcaattt tgtcagaagc ttctgctcct atccctcacg atggaaatct 180
 ctatccocaga ctgtatccag agctctctca atacatgggg ctgagtttaa atgaagaaga 240
 aatacgtgca aatgtggcgc tggtttcttg tgcaccactt caggggcagt tggtagcaag 300
 accttcagat ataaactata tgggtggctcc tgaacttggt aatgatgtg gaattcgtg 360
 agcagaaatt aagcaaggga ttctgtgaagt cattttgtt aaggatcaag atggaaaaat 420
 tggactcagg cttaaatcaa tagataatgg tatatttggc cagctagtcc agggtaattc 480
 tccagcctca ttggttgctc tgagatttgg ggaccaagta cttcagatca atggtagaaa 540
 ctgtgcagga tggagctctg ataaagcgca caa 573

<210> 269
 <211> 500
 <212> DNA
 <213> Homo sapiens

<400> 269
 gaatcggcac caggaaacct ttattagcag agatagctgg cttggatcag attacgggga 60

```

atgtggggga gccatgaaga aactaactaa aggggagcct ttgggggacca gggggagaca 120
agtcaactatt ttgaggggaga aagctctgga ttgattctga caggacactt gagtgtgaac 180
tgtccaagct aagcctctgg gtgtgtagag agagccctta cagatagata goacctttgc 240
tttcagagtg gaaggactag ccaactaagga ccagaccaag atgcatgtag gtoactgaca 300
agcactgat gaagaggag ggtctctcc aagtttgtgt ttggaaactcc tctctgtgtc 360
aatttctaa aagccataat ccagcaagct gaactcatga gaaggtctgc ttcagtgtga 420
gtatggagaga cagaacacag acggaaactg cagtgatggt gtgaagacac cacggatag 480
ttaggggcag ttagggagaa

```

<210> 270

<211> 224

<212> DNA

<213> Homo sapiens

<400> 270

```

gaattcgcca cgagaagact acaatctcca gggaaacctg gggcgtctcg cgcaaacgtc 60
cataactgaa agtagctaa gcaaccacgc cggagggaagt gagctctctc ggggcgtggt 120
tgtctgtgat ccttgctatc gttacttagg gtcaaaggctt ggggtctgcc ccgacagacc 180
ttgggagcac ccggcccccag cgcagctatg aacctggagc gagt

```

<210> 271

<211> 447

<212> DNA

<213> Homo sapiens

<400> 271

```

gaattcgcca cgaggotggg ccggggccga gcggaatcgc ggcctggggt gcggggctcc 60
ggctgcgggc gctgggcccgc gaggcgcgga gcttgggagc ggagcccagg ccgtgcccgc 120
cggcgccatg aaggggcaagg aggagaagga gggcggcgca cggctgggcg ctggcgggcg 180
aagccccgag aagagcccgga gcgcgcagga gctcaaggag cagggcaatc gttctgtcgt 240
gggcccgaag taccgggagg cggcggcctg ctacggccgc gcgataccac ggaaccogct 300
ggtggccgtg tattacacca accgggcctt gtgctacctg aagatgcagc agcacgagca 360
ggccctggcc gactgcgggc gcgcctcgga gctggacggg cagtctgtga aggcgcactt 420
cttctgggg cagtgcacgc tggagat

```

<210> 272

<211> 606

<212> DNA

<213> Homo sapiens

<400> 272

```

gcaactactt atattccttt gatggataat gctgactcaa gtctctgtgt agataagaga 60
gaggttattt atttgcttaa acctgaccaa gtagaaggga tcagagaatc tgggactaaa 120
aaactgaaga ccgaaactga caaagaaaat gctgaagtga agtttaaaga tttctctctg 180
tcctgaaga ctatgatgtt ttctgaagat gaggctcttt gtgttgtaga ottgctaaag 240
gagaagctcg gtgtaataca agatgcttta aagaagtcaa gtaagggaga attgactacg 300
cttatcacat agotccaaga aaaggacaag ttactcgtcg ctgtgaagga agatgctgct 360
gtacaaaagg atcggtgtaa gcagttaacc caggaaatga tgacagagaa agaagaagc 420
aatgtggtta taacaaggat gaaagatcga attggaacat tagaaaagga acataatgta 480
tttcaaaaca aaatacatgt cagttatcaa gagactcaac agatgcagat gaagtttcat 540
caagttcgtg agcagatgga ggcagagata gctcacttga agcagggaaa tgggtatata 600
ggagaa

```

<210> 273

<211> 598

<212> DNA

<213> Homo sapiens

```

<400> 273
gaattcggca ccaggcccggt tcccgcgggtc gcagctccag ccgcctcctc cgcgcagccg 60
ccgcctcagc tgctcgtctt gtgggtcggt cctctccggc acttgggctc cagtgcgcgc 120
ctccaagccc ttcaggccgc cccagtgctc tctctcttct ccggccagac ccagccccgc 180
gaagatgggt gaccgcgagc aactgggtgca gaaagcccggt ctggccgagc agggcgagcg 240
ctacgacgac atggcgcggg ccatgaagaa cgtgacagag ctgaatgagc cactgtcgaa 300
tgaggaaaca aaaccttctgt ctgtggccta caagaacggt gtgggggacac gccgctcttc 360
ctggagggtc atcagtgaca ttgagcagaa gacatctgca gacggcaatg agaagaagat 420
tgagatgtgtc cgtgcgtacc gggagaagat agagaaggag ttggaggctg tgtgccagga 480
tgtgctgagc ctgctggata actacctgat caagaattgc agcgagaccc agtacgagag 540
caaatgtgtc tacttgaaaga tgaaagggga ctactaccgc tacctggctg aagtggcc 598

```

```

<210> 274
<211> 536
<212> DNA
<213> Homo sapiens

```

```

<400> 274
gcaccaagag actaaacaag aaagtggatc aggggaagaag aaagcttcat caaagaaca 60
aaagacagaa aatgtcttcg tagatgaacc ccttattcat gcaactactt atattccttt 120
gatggataat gctgactcaa gtctgtggtt agataagaga gaggttattg atttgcttaa 180
acctgaccaa gtagaaggga tccagaaatc tgggactaaa aaactgaaga ccgaaactga 240
caagaataat gctgaagtga agtttaaaga ttttctctgt tcttgaaga ctatgatgtt 300
ttctgaagat gaggctcttt gtgtgtgaga cttgctaagg gagaagtctg gtgtaataca 360
agatgcttta aagaagtcaa gtaagggaga attgactacg cttatacatc agcttcaaga 420
aaaggacaag ttactcgtcg ctgtgaagga agatgctgct gctacaaagg atcgggtgaa 480
gcagttaacc caggaataatga tgacagagaa agaagaagc aatgtggtta taacaa 536

```

```

<210> 275
<211> 494
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 379
<223> n = A,T,C or G

```

```

<400> 275
gaattcggca ccagggtgcg ggttcttctt tgtggatcgc tgtgatcgtc acttgacaat 60
gcagatcttc gtgaagactc tgactggtaa gaccatcac ctcgagggtg agccagtgta 120
caccatcgag aatgtcaagg caaagatcca agataaggaa ggcattccctc ctgaccagca 180
gaggctgac tttgtggaa aacagctgga agatggggcg accctgtctg actacaacat 240
ccagaaagag tccaccctgc acctgggtgct ccgtctcaga ggtgggatgc aaatctctgt 300
gaagacactc actggcaaga ccatcacctc tgagggtggag cccagtgaca ccatcgagaa 360
cgtcaaaagca aagatccang acaagggaag cattctctct gaccagcaga ggttgatctt 420
tgccggaaag cagctggaag atgggcgcac cctgtctgac tacaacatcc agaaaagatc 480
taccctgcac ctgg 494

```

```

<210> 276
<211> 484
<212> DNA
<213> Homo sapiens

```

```

<400> 276
ggcttttaac cagaagtcaa acctgttccg acagaaggca gtcacagcag aaaaattctt 60
agacaaaagg cagtacaggt tgtgcaggga gtgtgggcga ggcttttagca ggaagtcaca 120
gtcatcata caccagagga cacacacagg agaaaagcct tatgtctgcg gagagtgtgg 180

```

```

gcgaggcttt atagttagt cagtctctcg caaccacctg agtacacact cgggggagaa 240
accttatgtg tgcagccatt gtgggagagg ctttagctgc aagccatacc tcatcagaca 300
tcagaggagga cacacaaggg agaatacgtt tatgtgcaca gtgtgtgggc gaggctttcg 360
tgaaaagtca gagctcatta agcaccagag aattcacacg ggggataaag cttatgtgtg 420
cagagattga gggcgaggct ttgtaaagga gatcatgtct caacacacac cagaggatta 480
catt
484

```

<210> 277
 <211> 513
 <212> DNA
 <213> Homo sapiens

```

<400> 277
gcttgaggct gccaatcaga gcttggcaga gctgagagat cagcggcagg gggagcgcc 60
ggaacatgca gcagctttgc gggccctaca agatcaggtt tccatccaga gtgcagatgc 120
acaggaaacaa gtggaagggc ttttggctga gaacaatgcc ttgaggacta gcctgggtgc 180
cctggagcag atccaaacag caaagaccga agaactgaat atgtctccgg aacagaccac 240
tgggctggca gctgagtgc agcagcagca ggctgagtag gaggacctta tgggacagaa 300
agatgacctc aactccacgc tccaggagtc attacgggcc aatagtcgac tgctggaaca 360
acttcaagaa ataggggcagg agaaggagca gttgacctag gaattacagg aggtctggaa 420
gagtgcggag aagcggaagg ccatgcttgg atgagctagc aatggaaacg ctgcaagaga 480
agtccacac aaggaagagc ttgggagcag ttc
513

```

<210> 278
 <211> 471
 <212> DNA
 <213> Homo sapiens

```

<400> 278
gaattcgcca ccagccaagg cctgtccctt ggtcggggcc cttgaagagg cttggaagc 60
caaagaggaa ctcgagcgga ccaacaaaaa gctcaaaagg gaaatggaag acctgggtcag 120
ctccaaggat gacgtgggca agaactgcca tgagctggag aagtcgaagg gggccctgga 180
gacccagatg gaggagatga agacgcagct ggaagagctg gaggacgagc tgcaagccac 240
ggaggacgcc aaactgcggc tggaaagtaa catgcaggcg ctcaagggcc agttcgaaag 300
ggatctccaa gcccgggacg agcagaatga ggagaagagg aggcgaactgc agagacagct 360
tcacgagtat gagacggaac tggaaagcga gcgaaagcaa cgtgcccttg cagctgcagc 420
aaagaagaag ctggaagggg acctgaaaga cctggagctt caggcccgact t
471

```

<210> 279
 <211> 497
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> 457, 471
 <223> n = A,T,C or G

```

<400> 279
gaattcgcca cgaggccaca gaggcgggcg agagatggcc ttcacgggtt cccagggtcc 60
ctacctgagt ccagctgtcc ccttttctgg gactattcaa ggaggtctcc aggcaggagt 120
tcagatcagt gtcaatggga ccgttctcag ctccagtgga accaggtttg ctgtgaaact 180
tcagactggc ttcatgggaa atgacattgc cttccacttc aacctcgggt ttgaagatgg 240
agggtagctg gtgtgcaaca cgaggcagaa cggaagctgg gggcccgagg agaggaagac 300
acacatgcct ttccagaagg ggaatgccct tgacctctgc ttctctgtgc agagctcaga 360
tttcaagggt atgggtaacg ggaatcctct cgtgcagtac ttccaccggc tgccttcca 420
ccgtgtggac accatctccg tcaatggctc tgtgcantct tctacatca ncttcagac 480
ccagacagtc atccaca
497

```

<210> 280
 <211> 544
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 451
 <223> n = A,T,C or G

<400> 280
 gaattcggca ccagaatagg aacagctccg gtctacagct cccagcgtga gcgacgcaga 60
 agacgggtga tttctgcatt tccatctgag gtacggggtt catctcacta gggagtgcca 120
 gacagtggcg gcaggccagt gtgtgtgcgc accgtgcgcg agccgaagca gggcgaggca 180
 ttgcctcacc tgggaaagcac aaggggtcag ggagtccctt tcccgagtca aagaaagggg 240
 tgacggcagc acctggaaaa tcgggtcact cccacccgaa tatttgtgctt ttcagaccgg 300
 cttaaagaaac ggcgaccac gagactatat cccacacctg gctcagaggg tccacgccc 360
 acggaatctc gctgattgct agcacagcag tcttagatca aactgcaagg ggggcaacga 420
 ggctggggga gggcgcccg ccattgccc ngcttgctta ggtaaacaaa gcagccggga 480
 agcttgaact ggggtggagcc caccacagct caaggaggcc tgccgtgcctc tgtagctcca 540
 cctc 544

<210> 281
 <211> 527
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 456
 <223> n = A,T,C or G

<400> 281
 gaattcggca cgaggcctcg ctcagctoca acatggcaaa aatctccagc cctacagaga 60
 ctgagcgggt catcgagtcc ctgattgctg tcttccagaa gtatgctgga aaggatgggt 120
 ataactacac tctctccaag acagagttcc taagcttcat gaatacagaa ctagtgcct 180
 tcacaaagaa ccagaaggac cctggtgtcc ttgaccgcat gatgaagaaa ctggacacca 240
 acagtgatgg tcagctagat ttctcagaat ttcttaatct gattggtggc ctagtctatgg 300
 cttgccatga ctcccttctc aaggctgtcc cttcccagaa gcggacctga ggacccttg 360
 gccctggcct tcaaaaccac cccctttcct tcacgacctt ctgtcatcat ctcacagcc 420
 caccatccc ctgagcacac taaccacctc atgcanggcc cccctgccaa tagtaataaa 480
 gcaatgtcct tttttaaaac atgaaaaaaa aaaaaaaaaa actcgag 527

<210> 282
 <211> 514
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 494
 <223> n = A,T,C or G

<400> 282
 ggaagactgg agccttttgc gcggcgctgc cccctcccctg gtcccccga gctcggagg 60
 cccggctggt gctcgggggg ccccgaggg ttgaaaacta agcatgggga agagctgcaa 120
 ggtggtctgt tgtggccagg cgtctgtggg caaaaactca atcctggagc agcttctgta 180


```

tgggaacatt  gtagtgggtt  cggagatgat  cgagacgcag  gaggacatct  acgtgggctc  240
cattgagaca  gaccgggggg  tgcgagagca  ggtgcgtttc  tatgacaccc  gggggctccg  300
agatggggcc  gaactgcccc  gacactgcct  ctcttgcact  gatggctacg  tcttggtcta  360
tagcacagat  agcagagagt  cttttcagcg  tgtggagctg  ctcaagaagg  agattgacaa  420
atccaaggac  aagaaggagg  tcaccatcgt  ggtccttggc  aacaagtgtg  acttacagga  480
gcagcgcgct  gtanacccaa  atgtggctca  acac

```

<210> 283

<211> 484

<212> DNA

<213> Homo sapiens

<400> 283

```

gggcgggcgg  tggacagtca  tggcgggccg  gcgcggggct  ctcatagtgc  tggagggcgt  60
ggaccgcgcc  ggggaagagca  cgcagagccg  caagctgggtg  gaagcgctgt  gcgcgcgggg  120
ccaccgcgcc  gaactgctcc  ggttcccggg  aagatcaact  gaaatcgcca  aacttctgag  180
ttcctacttg  caaaagaaaa  gtgacgtgga  ggatcactcg  gtgcacctgc  tttttctctg  240
aaatcgctgg  gaacaagtgc  cgtaaatata  ggaaaagtgt  agccaggggc  tgacctctgt  300
cgtggacaga  tacgcatttt  ctgggtgggc  cttcacccgt  gccaaaggaga  atttttccct  360
agactggtgt  aaacagccag  acgtgggcct  tcccaaaccc  gacctggctc  tgttctctca  420
gttacagctg  gcggatgctg  ccaagcgggg  agcgtttggc  catgagcgct  atgagaacgg  480
ggct

```

<210> 284

<211> 514

<212> DNA

<213> Homo sapiens

<400> 284

```

gaattcggca  cgaggcggag  gccgcggagg  ctctcggttc  cttcagcacc  cctcgcccg  60
acgcaccacc  gccctctacc  ccccgagagc  cgaaaatgga  cccaagtggg  gtcaaagtgc  120
tggaacagcg  agaggacatc  caggagaggg  ggcagcaggt  cctagaccga  taccaccgct  180
tcaagggaact  ctcaaccctt  aggcgtcaga  agctggaaga  ttctctatcg  ttccagttct  240
ttcaaaagaga  tgctgaagag  ctgggagaaat  ggatacagga  aaaacttcag  attgcattct  300
atgagaatta  taagacccca  accaacttgc  agggaaagct  tcagaagcat  caagcatttg  360
aagctgaagt  gcaggccaac  tcaggagcca  ttgttaagct  ggatgaaact  ggaaacctga  420
tgatctcaga  agggcatttt  gcatctgaaa  ccatacggac  cgttttgatg  gagctgcacc  480
gccagtgagg  attacttttg  gagaagatgc  gaga

```

<210> 285

<211> 383

<212> DNA

<213> Homo sapiens

<400> 285

```

gaattcggca  cgaggcgggg  ctccaccgcg  catcctgctc  cactctggcg  accgcccccg  60
gggcccccg  cgccggcgcg  gcgcgcggca  tgggcagagg  ggactactat  ctggagctgt  120
gcgagcgccc  ggtgcagtcc  gagaaggcga  accctgtcaa  ctgcgtcttc  ttcgatgagg  180
ccaacagca  ggtttttgct  gttcgatctg  ttggagctac  tggcggtgta  gttaaaggcc  240
cagatgatag  gaatcccatc  tcatttagaa  tggatgacaa  aggagaagtg  aagtgcatta  300
agttttcctt  agaaaataag  atattggctg  ttcagaggac  ctcaaaagact  gtggattttt  360
gtaattttat  cctgataaat  tcc

```

<210> 286

<211> 943

<212> DNA

<213> Homo sapiens

<400> 286
 gaattcggca ccaggggccgt ggccggaggag gagcgctgca cggctggagcg tcggggccgac 60
 ctccactacg cggagttcgt gcagcagtag gtgcgccctt gatcgccgag gtgcgctcct 120
 gttcaccggc cgtctctgcc cgaccgccca agcccgccctt ccctcgacct cgcgcgcacg 180
 cgtggggctg gggcgccgag gctggcgctg cggcctggcc ggcactctgc ccttctttcc 240
 agaggttccg ggcctctgtc tcccgcgaca ggttgctggc ttogtttggg gacagagtgg 300
 tccggctgag caccgccaac acctactcct accacaaagt ggactgtccc ttccaggagt 360
 atgtggaga cgtgtgcac cccagggacc ccacctccct gggcaatggt gaggcagccc 420
 tagggcgccg tagggggctg ggacgcttgg agtctccagg tgccaggatc cctgtccccg 480
 ccgtctctgt tggcgacacac octgtacttc ttgggggaca caaactcaac cgagtgggac 540
 tctctcttcc ggcaactact cccaccacca ttggcctgcg tgggaaccgc tccagcttac 600
 agctttggaa tcgcaggaagc tggctcgggg gtgccttccc actggcatgg acccggttac 660
 tcagaagtga tctacgctcg taagcgctgg ttccctttacc cactcgagaa gacgccagag 720
 ttccaccaca acaagaccac actggcctgg tccggggaca cataccagc cctgccaccg 780
 tctgcacggc cctctggagt taccatccgg gctggtgagg tgctgtactt ccccgacccg 840
 tgggtggcat ctacgcctca ccttgacacc agcgtcttca tctccacctt cctcggctag 900
 ccaaaacagc tggcaggact gcgggtcaca caccagcagc tcc 943

<210> 287

<211> 1143

<212> DNA

<213> Homo sapiens

<400> 287
 gaattcggca cgagggaaga acagctgttg gaacaacaag aatatttaga aaaagaaatg 60
 gaggaagcaa agaaaatgat atcaggagcta caggccttac tgctcaatgt atccttaact 120
 gaagatgaac aggagagccc ctctggccctc tgtgaaccag gtgtcaatcc cgaggaaaca 180
 ctgattataa tccaaagtgc tctggatcag agtatggagg agaatcagga cttaaagaag 240
 gaactgctga aatgtaaaca agaagccaga aacttacagg ggataaaggaa tgccttgacg 300
 cagagattga ctacagcagga cacatctgtt ctctcagctca aacaagagct actgagggca 360
 aatatggaca aagatgagct gcacaaaccag aatgtggatc tgcagaggaa ctgagatgag 420
 aggaaccggc tcttgggaga atataaaaaa agcctggggc gaagagatcg ccttcttcag 480
 cagcaccagg ccaagttaga agaagcactc cggaaactct ctgagtgcag ttaccaccag 540
 gtggatctag agcgagagct agaacacaaa gatgtcctct tggctcactg tatgaaaaa 600
 gaggcagatg aggcgaccaa ctacaacagt cacaactctc aaagcaatgg tttctcctt 660
 ccaacggcag gaaaaggagc tacttcagtc agcaacagag ggaccagcga cctgcagctt 720
 gttcgagatg ctctcgcgac cctgcgcaac agcttoagtg gccacgatcc tcagcacacc 780
 actattgaca gcttgggaca gggcatttct agcctcatgg agcgcctgca tgttatggag 840
 acgcagaaga acaagaaaag aaaggttcgg gtcaagtccac ccagaaactca agtaggtagt 900
 gaataccggg agtccctggc ccctaactca aagttgcctc actcacagag ctctccaact 960
 gtccagcaga cctgtactaa agtgccttat ttactgacc ggtcacttac gcccttatgt 1020
 ctcaatatac caaagaggtg ggaggaggtg attttaaaag acttatgat 1080
 cgggaaggaa atcacgggta tcacttcaaa gcactggatc ctgagtttgg cactgtcaaa 1140
 gag 1143

<210> 288

<211> 881

<212> DNA

<213> Homo sapiens

<400> 288
 gtgagagcgg gcgcaggaga ttggcgacgg tgtcgccctg gtttctgttg gcgggtgcct 60
 gggctggtgg gaacagccgc ccgaagggaag caccatgatt tcggcccgcc agttgttggg 120
 ttgattaatg gcgcgggacc gaaacctagc cccggacgag acgcgcgggtg 180
 ggaccacgag agcgtttgta aatattatct ctgtggtttt tgcctcgagg aattgttccc 240
 aaatacacgt tctgatcttg gtccgtgtga aaaaattcat gatgaaaac tacgaaaaca 300
 gtatgagaag agctctcgtt tcatgaaagt tggctatgag agagattttt tgcgatactt 360
 acagagctta ctgcagaaag tagaacgtag gatcagacga ggccatgctc gtttggcatt 420

```

atctcaaaac cagcagctctt ctggggccgc tggcccaaca ggcaaaaatg aagaaaaaat 480
tcaggtttcta acagacaaaaa ttgatgtact tctgcaacag attgaagaat tagggcttga 540
aggaaaaagta gaagaagccc aggggatgat gaaattagtt gagcaattaa aagaagagag 600
agaactgcta aggttcacaa cgtgcacaa tgaagcttt gctgcacaag aaaaaaaat 660
ggaagttttg gaagtatgtg gagccttttt aatagtagga gatgccagat cccgggtaga 720
tgaccatttg atgggaaaac aacacatggg ctatgccaaa attaaaagta ctgtagaaga 780
attaaaagaa aagttaaagga aaagaaccga agaacctgat cgtgatgagc gtctaaaaaa 840
ggagaagcaa gaagagagaa aaaaaaaaaa aaaaactcga g 881

```

<210> 289

<211> 987

<212> DNA

<213> Homo sapiens

<400> 289

```

gaattcggca cgaggggactg tggtttccag gaatgggtggc gtctcacgct tcttgtgctt 60
tttctcttgg ggcctccgag cggctgggggt tgggggactg ggcaggagggc tccctgtaaa 120
catttggact tgggctgggg caggggctggg tgttgggcaa agctgggggt ccagggtgga 180
gaagcagggg cccctccaga cgcagccttg ggagactcag catgtgcccc cctccccctca 240
tcacagaaca agacaatggg taaaaaccag aacagatgcc cagaaggggg taccatggcc 300
attaccagca tctcagacaa gggcaggcctt caaacaggga gccctgtggc aacccctccc 360
ctacgtctgg agctgagggg acagggggag ctgagaacaa agagaggaaa gaggagaaaa 420
gcggcggggg aacagcgggg gagcgtgatc ttcttggccc catcttctctc aggggttggg 480
gggtacaaaag tcggcggtgg cccatccccg caggccccgc tgccccctag aagaggccgc 540
agtctctcag gttgttcttg atgatgacat cggtagacgc gtcaaacacg aactgcacgt 600
tcttgggtgc ggtgcgcac gtgaagtgcg tgtagatctc cttgtgtctt ttgcgcttat 660
tcagggtctc aaacttactc tggatgtagc tggctgcctc atcatatttg ttggcccctg 720
tatactcagg gaagcagatg gtcaggggac tgtgtgtgat cttctcctca aacaggtcct 780
tcttgttaga gaagaggatg atggacgtgt ctgtgaacca ctgtgtgtg catagcttat 840
cgaatagctt catgctctca tgcattcggt tcatctctc gtccctcagc agcaccaagt 900
cataggcgct caaggctacg cagaagatga tggctgtgac gccctcaaa gactggatcc 960
acttcttccg ctacagccgc tgaccac

```

<210> 290

<211> 300

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 233, 247

<223> n = A,T,C or G

<400> 290

```

gattcaagat gtacccatt gactttgaga aggatgatga cagcaacttt catatggatt 60
tcatctgggc tgcatccaac ctccggggcag aaaactatga cattctctct gcagaccggc 120
acaagacaa gctgattgca gggagaatca tcccagccat tgcccagacc acagcagccg 180
tggttggcct tgtgtgtctg gagctgtaca aggttgtgca ggggcaccga cancttgact 240
cctacangaa tgggtgcctc aacttgagcc ctgcctttct ttggtttctc tgaacccctt 300

```

<210> 291

<211> 352

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 248, 257, 275, 295, 306, 337

<223> n = A,T,C or G

<400> 291

```
aaccaagctg ccaccggggg tggatcggat gcggcttgag aggcacatctgt ctgccgagga 60
cttctcaagg gtatttgcoa tgtccoctga agagtgtggc aagctggctc tgtgggaagcg 120
gaatgagctc aagaagaagg cctctctctt ctgatggccc ccacctgctc cgggacggcc 180
cccttaccoc tgetcttcoa ggggttttcc ccggcgggtt gggaggggca ggaggtgggg 240
tggaaatng gtgggcncct ttctctcagg agagnggggg gccaaaacct ctgcngtccc 300
cggagngagc tatggacttt cttccccctc acaaggntgg gggcctcctg ct 352
```

<210> 292

<211> 511

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 19, 353, 415, 431, 474

<223> n = A,T,C or G

<400> 292

```
cgcggtggct ggcactong cctgagaac tcggcaagcg cgcagtgtcg actccccggt 60
ctatgcaggc cgcactctcag ctaatccaaa agtaaatgag aaacttagaa aaagattgcc 120
aattccaaat caacatatatt agagaaaatt ggaaaaggag aagcttacta cagctttatt 180
tgaggacttt ttaaagaacg ctgggttcta tctgtgagct gcaaatcttg gagcaaaaac 240
cagagacatt gccagagcaa acaagaacag aaatacaaat ggagaacttg tcaaaagaca 300
taaccacagc ttatcttgaa caagaaacta cggggataaa taaaagtacg canocagatg 360
agcaactgac tatgaattct gagaaaagta tgcacgga atccactgaa ttagnaatg 420
aataaacatg ngagaacaca gaatggccag gggcagagat caacgaattt tcanatcac 480
agtcttctac cagatgatga gtctgtttac t 511
```

<210> 293

<211> 526

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 125, 249, 264, 282, 291, 381, 399, 488

<223> n = A,T,C or G

<400> 293

```
gataaaaaga actttaatgg aaggcactgt tgtccaaaat cacataaagg gtaagagccc 60
acacggtacc accctgctct cctactttct aaaccacat ccaccaccca gacaggaggg 120
tgcanacccc acagaaatct accctccgga gcactgactg atatttttcc ttaaaacaaa 180
aaaatggctg tctcagacta ataacagaac atcttaagag ctataccagc tattacagcc 240
tggtaatana agcagctttc taanaattcc caagtttata anaggcccaa naaatgcatt 300
tattctgttg tctattaaag ctccatgaca aggagaaagt tatgagtaaa tccctgggtc 360
atcaggagtg aagagctgtg ngcctcatga ggagttaana gctgtgtgca taagcaggtt 420
caagaaacaa actcctgtgt gtttgcctct ttgatgggtc aaaaacattc agctgctttc 480
acctctanga caaaatgctt aaagaattta cctctcatcac cttggg 526
```

<210> 294

<211> 601

<212> DNA

<213> Homo sapiens

```

<220>
<221> misc_feature
<222> 55, 285, 489, 519, 582, 590
<223> n = A,T,C or G

<400> 294
actttaaaag ccaaatatat ttttaaaaga tcatgcttat aataagtaaa ttacncatta 60
aggaacatc aaaataaagt agatgaataa aaaggcacac tcgaaaaatt tgagcgcgaga 120
aaggacagtt ctttttggtt tgtttctaat gtccgaagaa aaagaaagag atatatataa 180
atcatgtgtt tcaagtgaag gttttgttca gttgaagtat ttagcaattg cttcttttct 240
cccgtgtcca aagcagggtc ttctctggtc gacttctgag gagngttca gtcctctgcc 300
atgtataggc gatacatcaa ggcagcggcc actgcagaga tggcagggat caccacagttg 360
gtccaccaac tggaaactaga atcaatagta gtgataagag tttccggagg cttgtttaac 420
tttgggtgtg catctggatg gagctcccca atgatgaatg ttttggacat ttccctggca 480
tctgtagant gcccgacatc ctcaaaagttc tcagtagcng tcacctccac ttgttccott 540
aaaacttctt cccaccaggg atgtctcttc agaaatttgg gncaaatcgn acacctgtgtg 600
g 601

<210> 295
<211> 262
<212> DNA
<213> Homo sapiens

<400> 295
cccttagccc caaggccctt gggggcagcc accctccgcg ctgtgggccc gtagatttat 60
caagggtgtt atgggcccag ctttgggggg ccagtcocga tgcaactttga ggggtgtttg 120
agaggggact cccccactcg cacttaactc aacggctctc gggccctggg gctgttttta 180
ccatgtttgt ttttgaagct caggtgtctc acgtctgggc tgcaccaggc gaagagagaa 240
attaaagatt tgaggttttt cc 262

<210> 296
<211> 598
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 262, 296, 329, 360, 530, 534, 536, 568, 593, 595
<223> n = A,T,C or G

<400> 296
gttagaaca ctcagcaaaa taaaattctt gtttattgtt ggacaacatt gtttcacaca 60
tacatcaaac agggcaaaaa aaataaacag caacttcata gacaaaaaag gaaaaaaaaa 120
gaaacctttt atctttggcc tttttaacca tctcatacaa accaactact tatagtacag 180
ctaagtacat acacaaaaaa gttactggaa tgctcggaat aagattgttt ttctgttctc 240
atttttgcct tttttacaag gnttttttct tcctttgaga ttataatgaa catggncaca 300
ccacaagtaa agtcagaagt aggcacagana acgctccgaa ggctgggttt gtcacccgan 360
atcattaaaa atggctgacc ctaacaatat gtacaaaaat ataaaaatgta aataaaaaat 420
acaaacaaat ttctctttta aagtactttt aagaaaaaaa gcagggcctt ggaagttttg 480
gtctcttttt cctccctctg tgcaaatctc catgggtttg gttgggtggm gganancccg 540
tgtcatctgc ggggtggcact gccccggngg gggggcgggc ctctctctcg aangngac 598

<210> 297
<211> 509
<212> DNA
<213> Homo sapiens

<400> 297

```

```

agaacacagg  tgtcgtgaaa  actaccacct  aaagccaaaa  tgggaaagga  aaagactcat  60
atcaacattg  tcgtcattgg  acacgtagat  tcgggcaagt  ccaccactac  tggccatctg  120
atctataaat  cgggtggcat  cgacaaaaga  accattgaaa  aatttgagaa  ggaggctgct  180
gagatgggaa  agggctcctt  caagtatgcc  tgggtcttgg  ataaactgaa  agctgagcgt  240
gaacgtggta  tcaccattga  tatctccttg  tggaaatttg  agaccagcaa  gtactatgtg  300
actatcattg  atgccccagg  acacagagac  ttatcaaaaa  acatgattac  agggacatct  360
caggctgact  gtgctgtcct  gattgttgct  gctggtgttg  gtgaatttga  agctgggtatc  420
tccaagaatg  ggcaaggacc  gagagcatgc  cctcttggtc  tacacactgg  gtgtgaaaaa  480
actaatgtgc  ggtgttaaca  aaatggatt  509

```

<210> 298

<211> 267

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 105, 108, 136, 148, 149, 237, 243, 250

<223> n = A,T,C or G

<400> 298

```

gggacggggg  aaaggagacg  cttcttcctc  ttgctgtctc  tctcgttccc  gagatcagcg  60
gcggcggtga  ccgcgagtgg  gtccggcacc  tctccggctc  cgggngcnaa  caatgctgac  120
tgatagcgga  ggcggnggca  cctccttnna  ggaggacctg  gactctgtgg  ctccgcgatac  180
cgccccagct  ggggcctcgg  agccgcctcc  gccgggaggg  gtcggcttgg  ggatccncaac  240
cngagggctn  ttgggggagg  gcgggcc  267

```

<210> 299

<211> 121

<212> DNA

<213> Homo sapiens

<400> 299

```

ggcacgaggg  ccctcggagc  tcgtttccag  atcgaggtaa  gagggacttt  cttaaaggcc  60
tagtctatgg  gatggggcgg  cggaggggat  tttttgagaa  ataaaaatgaa  gctgcagtg  120
a  121

```

<210> 300

<211> 533

<212> DNA

<213> Homo sapiens

<400> 300

```

aaggtgcaca  gtatttgatg  caggctgctg  gtcttggtcg  tatgaagcca  aacacacttg  60
tccttggatt  taagaaagat  tggttgcaag  cagatatgag  ggatgtggat  atgtatataa  120
acttatttca  tgatgctttt  gacatacaat  atggagttagt  ggttattcgc  ctaaaaagaa  180
gtctggatat  atctcatctt  caaggacaag  aagaattatt  gtcattcaca  gaaaaatctc  240
ctggaccaca  ggatgtggta  gtaagtgtgg  aatatagtaa  aaagtccgat  ttgataactt  300
ccaaaccact  cagtgaaaaa  ccaattacac  acaaaagtga  ggaagaggat  ggcaagactg  360
caactcaacc  actgttgaaa  aaagaatcca  aagggccctat  tgtgccttta  aatgtagctg  420
accaaaagct  tcttgaagct  agtacacagt  ttcagaaaaa  acaaggaag  aataactatg  480
atgtcttggt  gctttttgat  gatggaggtt  tgaccttatt  gataccttac  ctt  533

```

<210> 301

<211> 560

<212> DNA

<213> Homo sapiens

```

<220>
<221> misc_feature
<222> 227, 324, 343, 351, 408, 412, 431, 453, 502, 516, 544
<223> n = A,T,C or G

<400> 301
ataaatgac ccttttatgtg taagtaatgc gcaacactgg cctggcttgg cactgcaagc 60
cctcggtcaa gatatatgca aataactatg gctgcagggtt ccacagttcc acaataacca 120
tggctgcacg atccacaact cagacacaga catagagctg ggggtgggtgg aagggggcagg 180
aggggtggcg agtgcggact gtcccccagcc ctggcctctc catgcanaagt tggcccaggct 240
agacacaccc catggaaatga tgagaaagtg acggcagcggc cctctccac agcaagcctg 300
gggctgcacg gaactgccct tcanaacctt tgggcccagg tcncctgaa nccccacaac 360
tttttatctg gaataagtat taaaaaacaa taaattaagc aaacaacntg gnccttgagg 420
gatgttgacc nacatggtcc acagtttttg gncacaaaaa ataaggcgctg gtttgctttt 480
tttgggaaggc aggggtttgtg gnttggcttt caaatnattt tcaaacattt ccccaggagg 540
gganaacccc cggggggggaa

<210> 302
<211> 599
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 51, 157, 240, 258, 304, 316, 378, 391, 475, 576, 580
<223> n = A,T,C or G

<400> 302
gcaaaagtac aaattttatg gtctggaat aaatacaaat atctcattaa naaactctct 60
tggaagact tgtgcacaat agtttcccat ccgtactcag cctctcttgc ccgatcccc 120
gacttttctc ctcaaggcca ggaagggcct ccaaggngat gggcgggcagg taacgagtc 180
ttgcctctca cgccacctgg aaggctggac tacttctctc tcccaactgc ggggtccan 240
aaatcctcgt gtcccagngg ctgaacttaca atattcaatt cactctgacc aaacttcc 300
tganaaaatc cagggngagc caaaatgaaa agtacaaggc agtagtacag gaacctggca 360
gccgcactgg ccgcccanaa acgtcagtg ngctgcccc ttcggcgaaa ggttagggag 420
caggaaaaa ggaagcagga gagggaagga aagtcoccat gaatatgtat tccanaatcc 480
ttacttttct tcagccaccg ctccccacgt gagtctccac ccccacccc acaagaagca 540
aagagtctct aggatccaag aacgtgaccg ggtcanacan gtctagctac tgagttcac 599

<210> 303
<211> 591
<212> DNA
<213> Homo sapiens

<400> 303
cggagtgtga acgtctccact gactgataga gcgaccggcc gaccatggcg cccggagtg 60
cccgcgggcc gacgcgctac tggaggttgc gctcggttgg ccgcgcgtg ctctcgctgc 120
tcatcccggt ggccgcggcg caggagcctc ccggagctgc ttgtctctag aacacaaaca 180
aaacctgtga agagtgcctg aagaacgtct cctgtcttgg gtgcaacact aacaaggctt 240
gtctgactca cccagttaca agcgtcttgc caccggcttc cctttgtaaa ttgagctctg 300
cacgctgggg agtttgttgg gtgaactttg aggcgtgat catccaatg ctgtagtgc 360
ggggaacctt cctcctgggc attgccatct gctgctgtg ctgctgcagg aggaagagga 420
gccggaagcc ggacagagag gaggagaagg ccatgcgtga gcgggaggag aggcggatac 480
ggcagagaga cggagagaca gagatgaaga caagacatga tgaaatcaga aaaaaatatg 540
gcctgtttaa agaagaaaaa ccgtatgcta gatttgaaaa caactaaagc g 591

<210> 304
<211> 441

```

<212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 411
 <223> n = A,T,C or G

<400> 304
 gctggacgga gacctgctgg aggaggagga gctggaggaa gcagaggagg aggaccggtc 60
 gtgctgtctg ctgctgtcgc cgcgccgggc caccgcctct cagaccagc agatcccagg 120
 cgggtccctg gggctgtcgc tgcctgccagc cgcagggttc gatgcccggg aggcggcgcg 180
 ggccggcggg gtgctgtacg gaggggacga tgcccagggc atgatggcgg cgatgctgtc 240
 ccacgcctac ggcgccggcg gttgtggggc ggccggcgcc gccctgaacg gggagcaggc 300
 ggccctgctc cggagaaga cgcacaacac caccgagtg gtcccggtgc ccagctccga 360
 gcacgtcgcc gagatcgctg gccgccaggg ttgtaaaatt aaagcactga nagccaagac 420
 aaacacgtat atcaagactc c 441

<210> 305
 <211> 491
 <212> DNA
 <213> Homo sapiens

<400> 305
 tgccatgcc cccttcttag cactgcacgc ccagggtccat gctgctgcca cccagacct 60
 gggctttgct tgcacactct gtgggcagag ctcccgaggc tgggtggccc tggttctgca 120
 tctgcggccc cattcagctg caaagcgggc catcgcttgt cccaaatgcy agagacgctt 180
 ctggcgacga aagcagcttc gagctcatct gggcggtgct gccctccgc ccccgaggcg 240
 ccggcccttc atatgcggca actgtggcgc gagctttgcc cagtgggacc agctagtgtc 300
 ccacaaagcg gtgcacgtag ctgaggccct ggaggaggcc gcagccaagg ctctggggcc 360
 ccggcccaag ggcgcgccgc cggtgaccgc ccccgggccc ggtggagatg ccgtcgaccg 420
 cccttccag tgtgcctgtt gtggcaagcg ctcccgccac aagccaact tgatcgctca 480
 ccgcgcgtg c 491

<210> 306
 <211> 547
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 502
 <223> n = A,T,C or G

<400> 306
 tctcttcttt ttaagacagg aatgtaagcc acaacattta caaatacaat gttttaactc 60
 tctacatgta ggaagccaac ctgctccttt ttgatcttct tctttggcac aacctcagtg 120
 gattctctct attcagaacg agttctaat gatcttctct gttgcttctt ttctactgag 180
 cctgtagaac cagatgttgc ttcaggagat gatacactct gcgttggtt ttcatctctc 240
 tggtttgggt tagaaattat aagcctgtct tgcccccctga cacttatctt tgttttggtt 300
 ccaattccct ttgttgaata acaaaattga tcgataaatt tcccatcccc ttagcattc 360
 tgaagagcaa acacttgctt aattttcaca actggagaca tgttacactt ctgcacaatc 420
 aggtccctct tgtgcatccg taatggaagc tggtaaggat ttcttctgct ccgcagtttt 480
 ccaggtctat ttaacaggcg gngctctctc ctctttccgc acttgtgtgc cgctctggc 540
 tatgtct 547

<210> 307
 <211> 571


```

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 51, 103, 245, 407, 448
<223> n = A,T,C or G

<400> 307
cgctgcatgt gataatgtca tcatattatt ttaaatgggt ctaaatgtca nattaagt 60
gatttcaaat caaccctatt ttttaattac ttttaattag aanaaatgaa gcaaggacat 120
acataatcta ctatatattga aggactcaaa caaatacatg tttggctgtg aattctgttac 180
tctcaccaaa acagagataa aaatccacct aaaatacact ttccttcatt tagtgcttgt 240
ggganaaggt caagtattgc actttaaaat tactttcact taacatttgc cccaactttc 300
ccctgaatt cactatatgt tttcagcaaa catgatttta taatttttaa gtataaaagc 360
aactagggtt tctaattcaa ctttggagg tttactttac tctacanagc tatttttgt 420
aaacggcata tttacttaca aaattganag ataggggcat ccagctgagg tacatttctc 480
cccttggcgt tgagtttctg gacttgggtc gggggcacag gcttgtgtga ctgccccgtg 540
gcccgataca tggcctggac ccaggtatgc g 571

<210> 308
<211> 591
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 576
<223> n = A,T,C or G

<400> 308
ctccttatgt gtctgcctac ttcattcttc ggcatttctc gcttatccaa gttcaccatt 60
tcaggtcacc actggatatac agttgcctgt atataattat caggcatttc ctgcttatcc 120
aagttcacca tttcagggtca ccactggata tcagttgcct gtatataatt atcaggcatt 180
tcctgcttat ccaagttcac catttcaggt caccactgga ttcagtttgc ctgtatataa 240
ttatcaggga tttcctgctt atccaaagtt accatttcag gtcaccactg gatatacatt 300
gctgttatat aattatcagg catttcctgc ttatccaaat tcaccatttc aggtcaccac 360
tggatatcag ttgcctgtat ataattatca ggcatttctc gcttatccaa gttcaccatt 420
tcaggtcacc actggatatac agttgcctgt atataattat caggcatttc ctgcttatcc 480
aaattcagca gttcagggtca ccactggata tcagttccat gtatacaatt accagatgcc 540
accgcagtcg cctgttgggg gagcaaggga gaaatntgtg gaaccgaagca t 591

<210> 309
<211> 591
<212> DNA
<213> Homo sapiens

<400> 309
aggggggtgca cgtactccca actgtggtcg cgctctcacc ccttctgctg ctctcgtggc 60
cccctcgcca tggcggggcat cctgtttgag gatattttcg atgtgaagga tattgaccgc 120
gaggggcaaga agtttgaccg aggttaagtaa gtgtctcgac tgcattgtga gactgaatct 180
ttcaagatgg atctaactct tagtaccttg tatgaagatg gtaccctgga tgatgggtgaa 300
tacaacccca ctgatgatag gccttccagg gctgaccagt ttgagtatgt aatgtatgga 360
aaagtgtaca ggttgagggg agatgaaact tctactgaag cagcaacacg cctgctgaga 420
ttgagagctg ctgagttggca gtgctccaga atcacgggat ggggccttct gtttcagctc 480
tgctgactgt tcttatgggg gcctgctcat gaggctgcag ggggatgcca acaacctgca 540
tggattcgag gtggactcca gattttatct cctgatgaag aagctagcct t 591

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<210> 310
 <211> 488
 <212> DNA
 <213> Homo sapiens

<400> 310
 tgggtctcaag cctgaagagg ctccgcccac aagctggccc atgaagttag caatgcctgt 60
 ggctctcagtc aattgtcttg agactgtgaa gaggtcgaaa gacaccttcc cgggtggaag 120
 aaggagttca ctgaaaaact atcttaaaact gaccttccc tttgagttag tcttcattcc 180
 tctcccatgt gggaacccag cctccgatgc cccggggact aggggaaaca gttggaggtc 240
 cgtgcgctcc ccagcctgcc acgggtgcga ggacagccaa gtccgtgagt actcaagatg 300
 cttcacattac atggaagaaa cttctaaaaac tctaccgagt ggtttttcta tatactaaag 360
 ttctatttag agctttttctg ttttgggcaa gtctcgctgct ccttctattt gggcactttg 420
 gttttttagc tgtcttttgt gacggcattg attgaacatt ttttactagt agtctattga 480
 cttttgta 488

<210> 311
 <211> 511
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 8, 11, 19
 <223> n = A,T,C or G

<400> 311
 ccggtttntg nagcaaaaana gggggaagat ttataggtag aggcgacaaa cctaccgagc 60
 ctggtgatag ctggttgtcc aagatagaat cttagtccaa ctttaatttt gccacagaa 120
 ccctctaaat cccttgttaa atttaactgt tagtcocaaag aggaacagct ctttggacac 180
 taggaaaaaa ccttgttagag agagtaaaaa atttaacacc catagtaggc ctaaaagcag 240
 ccaccaatta agaaagcggt caagctcaac acccactacc taaaaaatcc caaacatata 300
 actgaactcc tcacacccaa ttggaccaat ctatcacccct atagaagaac taatgtttag 360
 ataaagtaaca tgaaaacatt ctccctccga taagcctgcg tcagattaaa acactgaact 420
 gacaattaac agcccaatat ctacaatcaa ccaacaagtc attattacc cactgttcaa 480
 cccaacacag gcatgctcat aaggaaaggt t 511

<210> 312
 <211> 591
 <212> DNA
 <213> Homo sapiens

<400> 312
 gaacttgcgt tgaaggaagc agaaactgat gaaataaaaa ttttgcggga agaaagcaga 60
 gccacagaga aggagacctt gaaatctctt cttgaacaag agacagaaaa ttgagagaa 120
 gaaattgata aactcaacca aaagattcag gataaataatg aaaattatca gttgggctta 180
 cgagagctaa gaactttaat gacaattgaa aaagatcagt gtatttccga gtttaattagt 240
 agacatgaag aagaattctaa tataacttaa gctgaattaa acaaagtaac atctttgcat 300
 acccaagcat ttgaaataga aaaaaacctt aaagaacaaa taattgaaat gcagagtaaa 360
 ttggattcag aattgagtcg tcttgaaaga caaaaagatg aaaaaattac ccaacaagaa 420
 gagaaatagc aagctattat ccagaaacct gagaaaagaca gacaaaaatt ggtcagcagc 480
 caggagcaac acagagaaca gttaattcag aagcttaatt gtgaaaaaga tgaagctatt 540
 cagactgcc taaaagaatt taaattggag agagaagttg ttgaaaaaga g 591

<210> 313
 <211> 373
 <212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> 16, 34, 44, 46, 68, 70, 76, 84, 92, 96, 99, 104, 170, 212, 235, 240, 249, 287, 296, 298, 304, 308, 334, 337, 339, 344, 348, 370, 373

<223> n = A,T,C or G

<400> 313

```

ttgattttta ttctgnattt tattactgaa atangttgtc ctantnatcc cccccccaa 60
taaaaaatntn acccangccc cccntttctt tnoctnatnc cctnttccac cacaccatcc 120
cggaacaagt gctccaggat tccctgcccc ctggccattt tggagtgtgn ccattgggta 180
gcaatgtgga aaccaccaag gcctttgtgg anaaatgga gggggttgag ggagncocan 240
gaggggctna tttgagggcc tttgccactt gctcataggg gagctcnatc tctcntnat 300
ctgnacangt ggaagcaaat tcttcccggg cgtnggnant gctnaagnac cgatgcactc 360
cccgaaggn ctn                                     373

```

<210> 314

<211> 591

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> 569

<223> n = A,T,C or G

<400> 314

```

cccggtccgc cgccgcctcc tgggaagaga ggaagcgga gaggagccca cgtcgctgt 60
cacccaatat ctccagccgc gcagtcocga agagtgtgaa atgttcgcct gcgccaagct 120
cgctgcacc cccctctctga tccgagctgg atccagagtt gcatacagac caatttctgc 180
atcagtgtaa tctcgaccag aggctagtag gactggagag ggctctacgg tatattaatgg 240
ggcccaagaat ggtgtgtctc agctaatacca aaggaggttt cagaccagtg caatcagcag 300
agacattgat actgctgcca aatttatttg tgcagggtgct gcaacagtag gagtggctgg 360
ttctggtgct ggtattgtaa cagtctttgg cagccttatc attggttat ccagaaaccc 420
ttcgctgaag cagcagctgt tctcatatgc tatcctggga ttgctctgt ctgaagctat 480
gggtctcttt tgttttagtg ttgctttctt gattttgttt gccatgtaac aaattactgc 540
ttgacatggt ggcattcata ttaattacng atgtaattct gtgtatctta c 591

```

<210> 315

<211> 591

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> 553

<223> n = A,T,C or G

<400> 315

```

aagcccttca ccaacaaaga tgcttatact tgtgcaaatt gcagtgttt tgtccacaaa 60
ggctgccag aaagtctagc ctctgtgcaa aaggtcaaaa tgaagcagcc caaagggagc 120
ctcagggaac atgacacatc atcactgcc acggtcatta tgagaaacaa gccctcacag 180
ccaagggagc gtctctggtc cgcagtcctc ctgggtgatg aaaccgctac caccocaaata 240
tttgccaata gacgatccca gcagagtgtc tcgctctcca aaagtgtctc catacagaac 300
attactggag ttggcaatga tgagaacatg tcaaacacct ggaattctct gtctcattca 360
acagactcac taataaaaaat cagcaaggtc aatgagtcga cgaatcaact tactgatgag 420

```

```

ggtacagaca tgaatgaagg acaactactg ggagactttg agattgagtc caaacagctg 480
gaagcagagt cttggagtcg gataatagac agcaagtttc taaacagacc aaaagaaaaa 540
tgtgggtcaa acngcgagaa gtaatatatg atgtggatgc agacagagtt t 591

```

<210> 316

<211> 591

<212> DNA

<213> Homo sapiens

<400> 316

```

gtttttataa gaataaaatt ccattcaagc cagatgggtg ttacattgaa gaagttctaa 60
gtaaatggaa aggagattat gaaaaactgg agcacaacca cacttacatt caatggcctt 120
tccccctgag agaacaaggc ttgaacttct atgccaaaga actaactaca tatgaaattg 180
aggaattcaa aaaaacaaaa gaagcaatta gaagattcct cctggcttat aaaatgatgc 240
tagaattttt tggaataaaa ctgactgata aaactggaaa tgttgctcgg gctgttaact 300
ggcaggaaaag atttcagcat ctgaatgagt ccagcaccaa ctatttaaga atcactcgta 360
ttottaaaaa ccttgggtgag ctggatatg aaagttttta atctcctcct gtaaaattta 420
ttcttcgatg agotccttgg gagaatacta ttcccaatat taagcagagt gctctagagt 480
attttgttta tacaattaga gacagaagag aaaggagaaa gctcctgcgg ttcgccaga 540
aacactcacg gccttcagag aactttatct ggggaccggc ctcgaaaaa a 591

```

<210> 317

<211> 323

<212> DNA

<213> Homo sapiens

<400> 317

```

ccaagctacg gaagcaagtg gaagagattt ttaatttgaa atttgcctaa gctcttgac 60
tcaccgaggg agtaaaaagta ccatacctg tgtttgaatc aaacccggag ttcttctatg 120
tggaaggcctt gccagagggg attcccttcc gaagccctac ctggtttgga attccacag 180
ttgaaagagt cgtccacggg agtaataaaa tcaagttcgt tgttaaaaaa cctgaactag 240
ttatttccta cttgcctcct ggggatggcta gtaaaataaa cactaaagct ttgcagtcoc 300
ccaaaagacc acgaagtcct ggg

```

<210> 318

<211> 591

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 538, 590

<223> n = A,T,C or G

<400> 318

```

gatggcggtac ttggcttgga gactggcgcg gogtctcgtg ccgagttctc tgcaggtcac 60
tagtttcccg gtagttcagc tgacacatgaa tagaacagca atgagagcca gtcagaagga 120
ctttgaaaaa tcaatgaatc aagtgaacct cttgaaaaag gatccaggaa acgaagtga 180
gtcaaaactc tacgcgctat ataagcaggg cactgaagga ccttgtaaca tgcocaaacc 240
aggtgtattt gacttgatca acaaggccaa atgggacgca tggaaatccc ttggcagcct 300
gccaaagaa gctgccaggc agaactatgt ggatttggtg tccagtttga gtccttcatt 360
ggaatcctct agtcagggtg agcctggaac agacaggaaa tcaactgggt ttgaaactct 420
gggtggtgacc tcogaagatg gcatcacaaa gatcatgttc aacccggcca aaaagaaaaa 480
tgcatataac actgagatgt atcatgaaat tatgcgtgca cttaaagctg ccagcaanga 540
tgactcaatc atcacttggt ttaacaggaa atggtgacta ttacagtagn g 591

```

<210> 319

<211> 591

```

<212> DNA
<213> Homo sapiens

<400> 319
gaattcggca cgaggttgct gctaagcgaa cgcctttg agcttacgga ggccttctga 60
aagacttcac tgctactgac ttgtctgaat ttgctgccaa ggctgccttg tctgctggca 120
aagtctcacc tgaacacggtt gacagtgtag ttatgggcaa tgctcctgag agttctctcag 180
atgctatata tttgccaagg catgttggtt tgcgtgtggg aatcccaaa gagaccccag 240
ctctcacgat taataggctc tgtggttctg gttttcagtc catttgtgaat ggatgtccag 300
aaatttgtgt taaagaagct gaagttgttt tatgtggagg aaccgaaaag atgagccaag 360
ctccctactg tgtcagaagt gtgcgttttg gaaccaagct tggatcagat atcaagctgg 420
aagattcttt atgggtatca ttaacagatc agcatgtcca gctcccatg gcaatgactg 480
cagagaatct tgctgtaaaa cacaaaataa gcagagaaga atgtgacaaa tatgcccctgc 540
agtcacagca gagatggaaa gctgctaagt atgctggcta cttaaatgat g 591

<210> 320
<211> 591
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 505, 507, 536, 549, 588
<223> n = A,T,C or G

<400> 320
ggctccggcg tctgcagggg tcgccgagct aaccctgggc taggcgagtg gggcgggggcg 60
gccggcacc a tgcgagggca ggcgaaccgt ggcaccgaga gcaagaaaaat gagctctgag 120
ctcttcaccc tgacctatgg tgccctgggt acccagctat gtaaggacta tgaatatgat 180
gaagatgtga ataaacagct ggacaaaatg ggcttttaaca ttggagtccg gctgattgaa 240
gatttcttgg ctccggtcaaa tgttgggagg tgccatgact ttcgggaaac tgcggatgtc 300
attgccaaag tggcggtcaa gatgtacttg ggcactactc caagcattac taattggagc 360
ccagctggtg atgaattctc cctcattttg gaaaataacc ccttggtgga ctttgggaa 420
cttctgata accaactcac cttattttat tccaatctct tgtgtggggt gttgcgggga 480
gctttggaga tgggtccagat ggctngngga ggcccaagtt tgtccaggac accctnaaag 540
gagacggngg tgacagaaat ccggatgaga ttcactagcg ggattganga c 591

<210> 321
<211> 260
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 248, 252
<223> n = A,T,C or G

<400> 321
ctgcttggtt ccacacgtgg gccgcgtag gtattccgac cggtaatcc toctattggt 60
gtgcagcagc cacattgaag gatagagtgg cagcagaggc caaggatcgt gagttgatgg 120
agtttgctgc tgaaaatgaa ggggaagtct ggggaggtct ccacagcgt gctgaggggg 180
tgccgctaag tcacagagcct ggcagggagg gagtaaggga cttagcaggg gcggaggagt 240
tctgcggngg anaggagggg 260

<210> 322
<211> 559
<212> DNA
<213> Homo sapiens

```

<220>

<221> misc_feature

<222> 61, 85, 87, 136, 142, 148, 161, 164, 180, 183, 203, 204, 234, 275, 286, 307, 311, 313, 337, 491, 523, 526

<223> n = A,T,C or G

<400> 322

```

ttccacatga catggagtgt gaagctggat gagcacatca ttccactggg aagcatggca 60
nttaacagca tctcaaaact gactnancct acccagtctt ccatgtattc acttctaat 120
gcacccactc tggcanacct gnaggacnat acacatgaag ncantgatga tcagccagan 180
aanectcact ttgactctcg canngtgata tttagctggg attcatgcaa tggngtggg 240
aaagtgtgcc ttgtctacaa aagtgggaaa ccagnattag cagaanaacac tgagatctgg 300
ttcctgnaca nanogttata ctggcatttt ctacacana cctttactgc ctattaccgc 360
ctgctcatca ccacactggg cctgcccagc tggcaatatg ccttcccagc tatggcatta 420
gcccaacagg caagcaatgg ttccagcatgt ataaacctat cacctacaac acaaacctgc 480
tcacagaaga naccgactcc tttgtgaata agctagatcc canctnagtg ttttaagagca 540
agaacaagat cgttatccc

```

<210> 323

<211> 492

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 412, 446

<223> n = A,T,C or G

<400> 323

```

cctgtctccc agccgtacca gcgagggtct ggcgggcagc gccgggctgg gggggcggcg 60
cgccggcgcc ggagccgggg tgggtgcagg cggcgggcgg gccagcggcg cgagcagcgg 120
cggcgggggc ggggggctgc aaccagcagc ccgcgctggc gccggccggc cctccagccc 180
cagcccgctg gtggtgagcg agaaggagaa ggaagagtgg gagcgctgc agaaagagga 240
ggaggagagg aagaagaggc tgagctgta tgtgttcgtg atgcgctgca tcgcctaccc 300
ctttaatgcc aagcagccca ccgacatggc tcgcccggcag cagaagatca gcaaacagca 360
gctgcagaca gtcaaggacc ggttccagcg ttctctcaat ggggaaaccc anactatggc 420
tgacgaagcc ttcatgaacc gctgtngcag agttactatg aggtgttctt gaagaccacc 480
cgtgtggccg ca

```

<210> 324

<211> 474

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 141, 184, 357

<223> n = A,T,C or G

<400> 324

```

aatttcagca acatacttct caatttcttc aggattttaa atcttgaggg attgatctcg 60
cctcatgaca gcaagttcaa tgtttttgct acctgactga accacttcca ggagtgctct 120
gatcacccagc ttaatcggtca natcatctgt ttcaatggct tcgtcagtat agttctctct 180
cagnaactca cgcactgact tggcaccocg gcctatggca ttggccttcc aggcattgga 240
tgtgcccagag ggttcagctc gatagagcct aggagtgcga tcaaatgcca aaccacgat 300
gagggcagag attgccaacg cctgcgccc attgctctgc gtataacgct gcttcanaact 360
ggcgatgtag cgggtgatgt actccacagt gaccgggtcc tccacagtca gccggtggct 420

```

ctggcactcc acccgggcc tgttgatgac tatccttgca tcggcggtga ggcc 474

<210> 325

<211> 532

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 517

<223> n = A,T,C or G

<400> 325

gaggagacag gacagagcgt ctggagaggg aggaggacac cgagttcccc gtgttgccct 60
ccaggtcctg tgcttgcgga gccgtccggc ggctgggacg gagccccgac aatgggcaac 120
gcccagagag gccgctcaga gactatcgac cgcgagcgga aacgcctggt cgagacgctg 180
caggcgagct cgggactgct gttggacgcg ctgctggcgc ggggcgtgct caccgggcca 240
gagtaacagg cattggatgc actgcctgat gccgagcgca ggggtgcgcc cctactgctg 300
ctggtgcagg gcaaggcgga gccgcctgc caggagctgc tacgctgtgc ccagcgtacc 360
gcgggcgcgc cggacccgc ttgggactgg cagcacgtgg gtccgggcta ccgggaccgc 420
agctatgacc ctccatgccc aggccactgg acgccggagg caccgggctc ggggaccaca 480
tgccccgggt tgcccagact tcagaccctg acgaggncgg gggccctgag gg 532

<210> 326

<211> 322

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 49, 132

<223> n = A,T,C or G

<400> 326

caaaattaac atttttatta aatcaagtta aaaaaaatgt tcaggtgana aaagtcaaca 60
agggttttaa caaaaccaaa atataacctt ttatacaata tatgtatata ttagcagcaa 120
actactcttg anattctott tcttttatgt tcttctagtt attttaaaga aagcataaac 180
aatgtatatt agtatggaat gtcagcaaat ccactcttag tcttttatc tgtgatttgg 240
gccttctaca aaatactttg tgattctcac taatgaatat taagaacata cccaatttta 300
actaaaaagt agtgaacacag tg 322

<210> 327

<211> 387

<212> DNA

<213> Homo sapiens

<400> 327

aaaacgctgt actattagcc atgtgcaacc ccacgctgtt ctctgacatt gccgtcgacg 60
ggagaccctt gggccgcgtc tcctttgagc tgtttgaga caaggtccca aagacagcag 120
aaaattttcg tgcctcgagc actggagaga aaggatttgg ttataaagggt tctgtcttcc 180
acagaattat tcacgggttt atgtgtcagg gtggtgactt cacacgccat aatggcactg 240
gtggcaagtc catctatggg gagaaatttg aagatgagaa ctctcatocct aagcatagcg 300
gtcctggcat cttgtccatg gcaaatgctg gaccacaac aaatgggtcc cagtttttca 360
tctgcactgc caagactgag tgggttg 387

<210> 328

<211> 502

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 354

<223> n = A,T,C or G

<400> 328

```

agcagcccgcg cgccggccgcc gcgccggcgcg gcggcgaaggc tccggggccag catggggggct 60
tcgtggtgac tgtcaaagcaa gagcgcgcgcg aggggccacg cgccggcgag aaggggtccc 120
acgaggagga gccggtgaag aaacgcggcgt ggcccaaggcg caagaagcggg aagaagattc 180
tgccgaatgg gcccaaggca ccgggtcacgg gctacgtgcg cttcctgaac gagcggcgcg 240
agcagatccg caccgcccac ccggatctgc cctttccga gatcaccaag atgctggggcg 300
ccgagtggag caagctgcag ccaaccggaaa agcagcggta cctggatgag gccnagagag 360
agaagcagca gtacatgaag gagctgcggg cgtaccagca gctcgaagcc tataagatgt 420
gcacggagaa gatccaggag aagaagatca agaaagaaga ctcgagctct gggotcatga 480
acactcttct gaatggacac aa

```

<210> 329

<211> 463

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 97, 219, 256, 331, 457

<223> n = A,T,C or G

<400> 329

```

caagttgcac attttaattt acaattttta ccaataaaaa ggattagtgt acaaaaaggg 60
aagtccttta tacaaaaataa ggacaatttg taaaganaat ccactgtcat gttttgcctt 120
gtcaagtcaa aactcaataa gcttgttttg gtaaaattat tccagaaaaca taatccagac 180
aaaatcaata acgtcatcag cttcctaacc atgtttaana ggaataaact catgaacatt 240
ttgcccgtgaa ctgaanagtt ctaaataact gtaaaccttt agggaaaaat gactgtctgc 300
aggcagcttg actggtaaga gggtagacca nagactccgg gtcactcaact gtcagaatat 360
tcttatacat acaatgagtc tccacgcctg tacaatgagt gtcgtgcaac ataattggag 420
taatggcctc taaaattttta caagtaaaact ttattnggcg ccc

```

<210> 330

<211> 500

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 350, 388, 397, 426, 478, 490, 491

<223> n = A,T,C or G

<400> 330

```

taattataga tctacaaaat atgaaatgta ttccaagaat gcagaaaaac catctagaag 60
caaaaggact ataaaacaaa aacagagaag aaaattcatg gctaaaccag ctgaagaaca 120
gcttgatgtg ggacagtcta aagatgaaaa catacatata cccaaagacga 180
atttcaaaaa aattcagaca gaaatatgga agagcatgaa gagatgggaa atgattgtgt 240
ttccaaaaaa acagatgccca cctgtgggaa gcaagaaaaag tagcactaga aaagataagg 300
aagaatctta aaagaagcgc ttttccagtg agtccaagaa caaacttgtn cctgaagaag 360
tgacttcaac tgtccacgaaa agtcgaanaa ttccangcg tccatctgat tgggtgggtgg 420
taaaancaga ggagagtctt gtttatagca attcttcagt aagaatgaa ttaccaantg 480
catcacaatn ntgcccgga

```



```

<210> 331
<211> 494
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> 222, 290, 314, 319, 338, 449, 460
<223> n = A,T,C or G

<400> 331
tctctctctc tctcaaaatt acagtgttca ttgtcattga cctcagcagc aaatttgact 60
tgaattcact taggatcgca ggaatcaggg gaaagtgtt tttaaagggtg tttctccagc 120
acattttaag aaaagggaacc aaaagttatt ttagcttctc caatagattg catgttgctt 180
attaggataa taaattaata ttaaatgcaa tatatgtctt gncctttatta tggcatctat 240
ttaggagttg ttcaaatcac tgcagtaggg ctctgcgaat aaaataatgn aacctattat 300
catggatcta atgnactgna actttatcag tgaaaggnaa aatctcaaat aacaagtaca 360
aacattggac aattacctat aaagatttgt aaaaggaaaa tttttccata gatttcattc 420
ttggcatttt gtaaaagcga cctgcagcnc cctgttttgn aactttttta ataaaaata 480
catctgttta cttg                                     494

<210> 332
<211> 538
<212> DNA
<213> Homo sapiens

<400> 332
aaagaacaaa tgggaacgca tgggtgttct gaacaagagt ctcaaccgtg tgcattttatt 60
gggataggaa atagtgaacca agaaatgcag cagctaaaact tgggaaggaaa gaactattgc 120
acagccaaaa cattgtatat atctgactca gacaagcgaa agcacttoat gttgtctgta 180
aagatgttct atggcaaacg tgatgacatt ggtgtgttcc tcagcaagcg gataaaagtc 240
atctccaaac ctcccaaaaa gaagcagtc tgaaaaaatg ctgacttatg cattgcttca 300
ggaacaaaag tggctctgtt taatcgacta cgtatccaga cagtttagta cagatacttg 360
catgtagaag gaggttaatt tcatgccagt tcacagcagt ggggagcctt ttttattcat 420
ctcttgatg atgatgaatc agaaggagaa gaattccagc tcagagatg ctacatccat 480
tatggacaaa cagtcaaaact tgtgtgctca gttactggca tggcactccc aagattga 538

<210> 333
<211> 499
<212> DNA
<213> Homo sapiens

<400> 333
ctcagcctgc gggactgctc ggctcggctt ctaggcgggt ttgatgaaca cctggcttta 60
ttcttgcaat gaagaagggt tctcaacaaa aaatattctc caaagcaag ataccatcat 120
catctcactc tctatcccca tcatctatgt ccaatatgag atctagggtca ctttcaacctt 180
tgattggatc agagactcta ccttttctatt ctggaggaca gtggtgtgag caagttgaga 240
ttgcagatga aaacaatatg cttttggact atcaagacca taaaggagct gattccatcg 300
caggagttag atattattaca gaggccctca ttaaaaaact tactaaacag gataatttgg 360
ctttgataaa atctctgaac ctttcacttt ctaaaagcgg tggcaagaaa ttttaagtata 420
ttgagaattt ggaaaaaattg gttaaaacttg aagtactgaa tctcagctat aatcataatg 480
ggaagattga aaagtcgga                                     499

<210> 334
<211> 561
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 503, 548
<223> n = A,T,C or G

<400> 334
ttcccggtag      ttcagctgca  catgaataga  acagcaatga  gagccagtcga  gaaggacttt  60
gaaaatttcaa      tgaatcaagt  gaaactcttg  aaaaaggatc  caggaaacga  agtgaagcta  120
aaactctacg      cgctatataa  gcaggccact  gaaggacctt  gtaacatgcc  caaaccaggt  180
gtatttgact      tgatcaacaa  ggccaaatgg  gacgcatgga  atgccccttgg  cagcctgccc  240
aaggaagctg      ccaggcagaa  ctatgtggat  ttggtgtcca  gtttgagtcc  ttcattggaa  300
tcctctagtc      aggtggagcc  tggaacagac  aggaaatcaa  ctgggtttga  aactctgggt  360
gtgacctccg      aagatggcat  cacaaagatc  atgttcaacc  cggcccaaaa  agaaaaatgc  420
cataaacact      gagatgtatc  atgaaattat  gcgtgcactt  aaagctgccca  gcaaggatga  480
ctcaatcctc      actgttttaa  cangaaatgg  tgactattac  agtagtggga  atgatctgac  540
taacttcnct      gatattcccc  c
                                     561

<210> 335
<211> 551
<212> DNA
<213> Homo sapiens

<400> 335
aagctgggtca      tggctgggga  gaccaccaac  tcccgcggcc  agcgcgtgcc  ccagaaggga  60
gacgtggaga      tgctgtgcgg  cgggcgcgcc  tgccagggct  tcagcggcat  gaaccgcctc  120
aattcgcgca      cctactccaa  gttcaaaaac  tctctgggtg  ttctcttctc  cagctactgc  180
gactactacc      ggcccgggtt  ctctctcctg  gagaatgtca  ggaactttgt  ctctctcaag  240
cgctccatgg      tcctgaagct  caccctccgc  tgccctggtc  gcattgggct  tcagtgcacc  300
ttcggcgctg      tgcaggccgg  tcagtacggc  gtggcccaga  ctaggaggcg  ggcacatcgc  360
ctggccgcgg      ccctgggaga  gaagctccct  ctgttcccg  agccactgca  cgtgtttgct  420
cccgcggcct      gccagctgag  cgtggtgggt  ggatgacaag  aagtttgtga  gcaacataac  480
caggttgagc      tcgggtcctt  tccggaccat  acggtgcgag  aaacgatgtc  cgacctgccg  540
gaagtgcgga      a
                                     551

<210> 336
<211> 540
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 517
<223> n = A,T,C or G

<400> 336
aggtctatgt      ctactgaagg  caataaacga  ggaatgatcc  agcttattgt  tgcaaggaga  60
ataagcaagt      gcaatgagct  gaagtcacct  gggagccccc  ctggacctga  gctgccatt  120
gaacacagct      tggatgtag  agaacgaaga  atttccatt  ccctctacag  tgggattgag  180
gggcttgatg      aatcgccag  cagaaatgct  gccctcagta  ggataatggg  taaataccag  240
ctgtccccta      cagtgaatat  gccccaagat  gacactgtca  ttatagaaga  tgacaggttg  300
ccagtgtctc      ctccacatct  ctctgaccag  tcctcttcca  gctcccacat  tgatgtgggg  360
tttgtgacgg      cagatgctgg  tacttgggcc  aaggctgcaa  tcagtgtatc  agccgactgc  420
tccttgagtc      cagatgttga  tccagttctt  cgttttcaac  gaaaaaggat  ttggactgtc  480
gaagtatgtc      agaaaaacgc  accaaagcaa  ttttcanatg  ccagtcaatt  ggtattcggt  540

```

<210> 337

```

<211> 422
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 410
<223> n = A,T,C or G

<400> 337
gcagcaggaa cagttacagc agcagcagca acagcagctg ttgcaacagc agcaggaaca 60
attgcagcag caacaactgc agcctcctcc cctggagccc gaggaggagg aagaggtgga 120
gctggagctc atgccgggtgg acctgggggtc agagcaggag ctggagcagc agcggcagga 180
gttggagcgg cagcaggagc tggaaacggca gcaggagcag cggcagctgc agctcaact 240
gcaggaggag ctgcagcagc tggagcaaca gctggagcag cagcagcagc agctggagca 300
gcaggagggtg cagctggagc tgaccccggg ggagctaggc gccacagcagc aggaggtgca 360
gctggagctg acccccgtgc agccggagct gcagctggaa ctggtgccan cccagggggc 420
gg 422

<210> 338
<211> 601
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 486, 566, 568
<223> n = A,T,C or G

<400> 338
catcttaaga acgctctatg atgtottatg agcgggtctat gatgtccctc atggtctgaac 60
gctctatgat gtcagcctac gagcgtctta tgatgtcagc ctacagagcg totatgatgt 120
ccctatggc tgagcgctct atgatgtcag ctatgaacg ctccatgatg tcagcttatg 180
aacgctccat gatgtcccca atggctgacg gatctatgat ttccatgggt gctgacgggt 240
ctatgatgtc gtcatactct gctgctgacc ggtctatgat gtcacgtgac tctgcagctg 300
acgatctat gatgtcatct tatactgctg atcggtcaat gatgtctatg gctgctgatt 360
cttacacaga ttcttacact gacacatata cagaggcata tatggtgcca cctttgcttc 420
ctgaagagcc cccaacaatg ccacogttgc cacctgagga gccaccaatg acaccaccat 480
tgccnctcga ggaaccaacc agagggtcca gcattgccca cttgagcagt cagcattaac 540
cagcttgaaa atacttggcc ctacanangg tgccatcatt accatctgaa gagctgtatc 600
g 601

<210> 339
<211> 440
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 429
<223> n = A,T,C or G

<400> 339
agaggaggga ggcccaactg gtgatgctgc tgctgctgct gctgccgcgg ccgccgcctc 60
tattgctgat actctagtgg ggctggaagg gtggttccca ttgcgaccat cgcacaaccag 120
agacagaggg aaaaaaaa cggcgagcca ctgctgatgt tgggttcgga gctgcatcc 180
gactcggtca caaggaaat ggattcagtt tgcattcttc cctcctttaa acagcttctc 240
cgggtctcag catggtatca aagcttgaaa gagagaagc tcaagaagcg aagaggattc 300

```

```

gtgagctgga gcagcgcaag cacacgggtgc tggtagacaga actcaaagcc aagctccatg 360
aggagaagat gaaggagctg caggctgtga gggagaacct tatcaagcag cagcacagga 420
aatgtcaang acggtgaagg

```

```

<210> 340
<211> 450
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 441, 442
<223> n = A,T,C or G

```

```

<400> 340
gattttcagg ggcggatatt gagtgtcgac ccagaggaag aaagggagga gggcccgcc 60
aggattctct aggccgacca gtggaagtct tcaaacaaga gcctgggtgga ggctctgggg 120
ctggaagccg aggggtgcagt tcctgagaca cagactttga cgggatggag taaggggttc 180
attggcatgc acagggaat gcaagtcaac ccatttcaa agcggatggg gcccatgact 240
gtggtcagga tggacgcttc agtccagcca ggcccttttc ggaccctgct ccagtttctt 300
tatcacggac aactggatga aaaggaaaag gatttggtgg gcctgggctca gatcgagag 360
gtcctcgaga tgttcgattt gaggatgatg gtggaaaaca tcatgaacaa ggaagccttc 420
atgaaccagg agattacgaa nncctttcac

```

```

<210> 341
<211> 451
<212> DNA
<213> Homo sapiens

```

```

<400> 341
aacagctatt aaaacagaaa atggatgaac ttcataagaa gttgcatcag gtggtggaga 60
catcccatga ggaatctgcc gcttcccagg aaaggtccga ggtaaatcca gcacgtatgg 120
ggccaagtgt aggcctccag caggaactga gagcgccatg tcttccagta acctatcagc 180
agacaccagt gaacatggaa aagaaccocaa gagaggcacc tctctgttgt cctcctttgg 240
caaagtctat ttctgcagct ttggtgtccc cagccaccag ccagagcact gctcctcctg 300
ttcctttgaa agcccagaca gtaacagact ccatgtttgc agtgccagc aaagatgctg 360
gatgtgtgaa taagagtact catgaattca agccacagag tggagcagag atcaaagaag 420
ggtgtgaac acataaggtt gccaacacaa g

```

```

<210> 342
<211> 498
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 462, 475
<223> n = A,T,C or G

```

```

<400> 342
ctcaagcagg ctattgaaga ggaaggaggc gatccagata atattgaatt aactgtttca 60
actgatactc caaacaagaa accaactaaa ggcaagggta aaaaactatga agcagatgag 120
ttgagtgagg atgcttctgt ggaagatga tgcctttatc aaggactgtg aattggagaa 180
tcaagaggca catgagcaag atggaatga tgaactaaag gactctgaag aatttggtga 240
aaatgaagaa gaaaatgtgc attccaagga gttactctct gcagaagaaa acaagagagc 300
tcataaata atagaggcag aaggaataga agatatagaa aaagaggaca tcgaaagtca 360
ggaattgaa gctcaagaag gtgaagatga tacctttcta acagcccaag atggtgagga 420
agaagaaaa gagaaagata tagcagggtt ctggtgatgg cncacaagaa gtatntaaac 480

```

```

ctcttctcttc aaaaaggg                                498

<210> 343
<211> 491
<212> DNA
<213> Homo sapiens

<400> 343
ccgaccoccta ctggcgggcg caactccaca accagtacgg ccccatgaat atgaacatgg 60
gtatgaacat ggcagcagcc gcggccacc accaccacca ccaccaccac caccocgggtg 120
cctttttccg ctatatgcgg cagcagtgca tcaagcagga gctaattctgc aagtggatcg 180
accccgagca actgagcaat cccaagaaga gctgcaacaa aactttocagc accatgcacg 240
agcttggtgac acacgtctcg gtggagcagc tcggcgggccc ggagcagagc aaccacgtct 300
gcttctggga ggagtgtcgg cgcggaggga agcccttcaa ggccaaatac aaactggtca 360
accacatccg cgtgcacaca ggcgagaaac ccttccctgc ctttcgggtg gtggcaaaagt 420
cttcgcgcgc tcgcgagaacc tcaagatcca caaaggagcc acacagggga gaagccgtcc 480
agtggagttg a                                         491

<210> 344
<211> 412
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 310, 377
<223> n = A,T,C or G

<400> 344
gtgcgctgtc ttcccgttg cgtcagggac ctgcccgaact cagtggccgc catggcatca 60
gatgaaggca aactttttgt tggagggctg agttttgaca ccaatgagca gtcgctggag 120
caggctttct caaagtaagg acagatctct gaagtgggtg ttgtgaaaga caggggagacc 180
cagagatctc ggggatttgg gtttgtcacc tttgagaaca ttgacgacgc taaggatgcc 240
atgatggcca tgaatgggaa gtctgtagat ggaaggcaga tccgagtga ccaggcaggc 300
aagtcgtcan acaaccgacg ccgtgggtac cgtggtggct ctgcccgggg cgggggcttc 360
ttcgtggggg gcccgangac ggggcccgtg ggtttcttaa aagaagaggg ga 412

<210> 345
<211> 498
<212> DNA
<213> Homo sapiens

<400> 345
aactagtctc gggccatctt ttctgcccac ccggtgtgcg tgggctgcac cccggggcg 60
gacgtccgcc gggcagcgga gggggccaa atgcogatca ataatcaga gaagccagaa 120
agctgcgata atgtgaaggt tgttgttagg tgccggcccc tcaatgagag agagaaatca 180
atgtgtctaca aacaggctgt cagtgtggat gagatgaggg gaactatcac tgtacataag 240
actgattctt ccaatgaacc tccaaagaca tttacttttg atactgtttt tggaccagag 300
agtaaacaaac ttgatgttta taacttaact gcaagaccta ttattgattc tgtacttgaa 360
ggctacaatg ggaactattt tgcatatgga caaacgggaa caggcaaaac ttttaccatg 420
gaaggtgtc gagctattcc tgaacttaga ggaataattc cccaatttct ttgctcacaa 480
tatttgggcc atatttgc                                         498

<210> 346
<211> 427
<212> DNA
<213> Homo sapiens

```

<220>
 <221> misc_feature
 <222> 348, 349
 <223> n = A,T,C or G

<400> 346
 agatggcggt cgcggtgaga actttgcagg aacagctgga aaaggccaaa gagagtctta 60
 agaacgtgga tgagaacatt cgcaagctca ccgggcggga tccgaatgac gtgagggcca 120
 tccaagccagc attgctggcc ctttctgtgc ctgggtggagg tagaggacgt ggtagtttat 180
 tactgaggcg tggattctca gatagtggag gaggaccocc agccaaacag agagaccttg 240
 aaagggcgag cagttagctg ggcggggagc gtccgaccag aagagaatca cggcaggaaa 300
 gcgacccgga ggatgatgat gttaaaaagc cagcattgca gtcttcannn gtactacac 360
 cccaaagagc gccccacgta gagaccttat ccagggatca aaattttgga tgaaaaaggg 420
 gaaagcc 427

<210> 347
 <211> 280
 <212> DNA
 <213> Homo sapiens

<400> 347
 cacagaaagt tctccgctcc cagacatggg tccctcggct tccctgcctg gaagcgcagc 60
 agcaggcatc gtgggaagggt gaagagcttc cctaaggatg acccgctcaa gccgggtccac 120
 ctacacgctt tctctgggata caaggctggc atgactcaca tcgtgcggga agtcgacagg 180
 ccgggatcca aggtgaacaa gaaggaggtg gtggaggctg tgacctattg agagacacca 240
 cccatggtgg ttgtgggcat tgtggggtac gtggaaccc 280

<210> 348
 <211> 411
 <212> DNA
 <213> Homo sapiens

<400> 348
 caactatgat gtgcctgaaa aatgggcagc attctatact gcagaagtag ttcttgcatt 60
 ggatgcaatc cattccatgg gttttattca cagagatgtg aagcctgata acatgctgct 120
 ggataaatct ggacatttga agttagcaga ttttgggtact tgatggaaga tgaataagga 180
 aggcattggta cgtatgtgata cagcgggttg aacacctgat tatatttccc ctgaagtatt 240
 aaaatcccaa ggtggtgatg gttattatgg aagagaatgt gactggtggt cggttggggg 300
 attttatac gaaatgcttg taggtgatac acctttttat gcagattcct tggttggaac 360
 ttacagtaaa attatgaacc attaaaaatt cacttacctt tctgatgatg a 411

<210> 349
 <211> 408
 <212> DNA
 <213> Homo sapiens

<400> 349
 gatgggcctc tctcgggaca actggcacia gcgcgcgaaa accgggggca agagaaagcc 60
 ctaccacaag aagcgggaagt atgagttggg gcgcccagct gccaacacca agattggccc 120
 ccgcgcctac cacacagctc gtgtgctggg aggtaaacag aataaccgtg ccctgaggtt 180
 ggacgtgggg aatttctcct ggggctcaga gtgtgtgact cgtaaaacaa ggatcactga 240
 tgtgtcttac aatgcattta ataacgagct ggttcgtacc aagaccctgg tgaagaattg 300
 catcgtgctc atcgacagca caccgtaccg acagtggtac gactcccaat atcgctgccc 360
 cctggggcgc aagaaggag ccaaacgtac ttctgaggaa gaagaaaa 408

<210> 350
 <211> 409
 <212> DNA

<213> Homo sapiens

<400> 350

```

ggttcoccca gctctgggta cccggctctg catcgcgctg ccatgatggg coactcgcca 60
gtgctctgtc tcagccagaa cacaaagcgt gaatccggaa gaaaagttca atctggaaac 120
atcaatgctg ccaagactat tcagatatc atccgaacat gtttgggacc caagtcgatg 180
atgaagatgc ttttggaccc aatgggagcg attgtgatga ccaatgatgg caatgccatt 240
cttcagagag ttcaagtcca gcatccagcg gccaaagtcca tgatcgaagt tagccggacc 300
caggatgaag aggttgagga tgggaccaca tcagtaatta ttcttgacgg ggaaatgctg 360
tctgtagtgt agcacttcct ggagcagcag atgcacccaa caggtgggg 409

```

<210> 351

<211> 226

<212> DNA

<213> Homo sapiens

<400> 351

```

aatcccaaac atataactga actcctcaca cccaattgga ccaatctatc accctataga 60
agaactaatg ttagtataag taacatgaaa acattctcct ccgcataagg ctgcgtcaga 120
ttaaaacact gaactgacaa ttaacagccc ataatctaca atcaaccaac aagtcattat 180
taccctcact gtcaacccaa cacaggcatg ctcataagga aaggtt 226

```

<210> 352

<211> 410

<212> DNA

<213> Homo sapiens

<400> 352

```

gcggaggggc tggctgggca ggagggggtg gcggggcagc agggcccgcg ccatggggag 60
cttgaaggag gagctgctca aagccatctg gcacgccttc accgcaactg accaggacca 120
cagcggcgaag gtctccaagt cccagctcaa ggtcctttcc cataacctgt gcacgggtgt 180
gaaggttctc catgaccocag ttgcccttga agagcacttc agggatgatg atgaggggtc 240
agtgtccaac cagggtctaca tgcccttatt aaacagggtt attttggaaa aggtccaaga 300
caactttgac aagattgaat tcaattaggat gtgttggacc ctctgtgttc aaaaaaacct 360
cacaaagaa cccctgtctc ttacagaaga agatgcattt aaaatatggg 410

```

<210> 353

<211> 380

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 133, 162, 200, 210, 252, 324, 332, 349, 365, 371

<223> n = A,T,C or G

<400> 353

```

gagtttattt agaaagtatc atagtgtaaa caaaocaaatt gtaccacttt gatttttttg 60
gaatacaaga ctogtgatgc aaagctgaag ttgtgtgtac aagactcttg acagttgtgc 120
ttctctagga gngtgggttt ttttaaaaaa agaattatct gngaaccata cgtgattaat 180
aaagatttcc ttttaaggcan aggotggctn agatgotgct gttatcttct gccctcagaca 240
gacagtataa gnggtcttgt ttctaagatt cctaccacca gttacttttg gccaaagtatc 300
cacatccctc tgcgtatggg agnggggtga anagtgttgg atgcaaaagn gttattatgg 360
gaagnagctc natggtaaaa 380

```

<210> 354

<211> 379

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 120, 124, 138, 194, 205, 220, 224, 275, 334

<223> n = A,T,C or G

<400> 354

```
caacacatct ttattaaaca cctgaagtta ctgggaggag gccatgatgc tggacacact 60
gtcaaaagtc atctctccca caatgttctt gggtttaatg ctctcttctt ggctacagan 120
gaanattctgc ccgagctnct cggcactcca gcgctatttg ctctccacca cctttagctg 180
gctgtccgac aganccccga gcatntcggc cagcagccan cggncaatgt gctggtaagt 240
gatacccaca acatggcgaga taaactttcg gacanagtct tcaaagccag ttataccttc 300
caagaggctc atgttttcat ccagggtctg ccanaagcct ggaaatggca ggtctccaac 360
aggtccccc ggtacaaaa
```

<210> 355

<211> 499

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 407, 459, 483

<223> n = A,T,C or G

<400> 355

```
gtccagagct gctgggtgctc ccgttcccca gacccctacc ctatccccag tggagccgga 60
gtcggggcgc gcccccaccac cgccctcacc atggtgctgt tggcagcagc ggtctgcaca 120
aaagcaggaa aggcctattgt ttctcgacag ttgtgggaaa tgaccogaac tcggattgag 180
ggcttattag cagcttttcc aaagctcatg aacactggaa aacaacatac gtttggtgaa 240
acagagagtg taagatatgt ctaccagcct atggagaaaac tgtatatggt actgatcact 300
accaaaaaca gcaacatctt agaagatttg gagaccctaa ggctcttctc aagagtgatc 360
octgaatatt gcgagcotta gaagagaatg aaatatctga gcactgnttt gatttgattt 420
ttgcttttga tgaaaaatgc gcactgggat acccgggag aatgttaact tggcacagat 480
canaaccttt cacagaaaa
```

<210> 356

<211> 511

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 381

<223> n = A,T,C or G

<400> 356

```
gggtctctgc tgagggggca ggcggagctt gaggaaccc cagataaagt ttttctctct 60
tgaagatag agattaatac aactacttaa aaaatatagt caataggcta ctaagatatt 120
gcttagcgtt aagtttttaa cgtaatttta atagcttaag attttaagag aaaatatgaa 180
gacttagaag agtagcatga ggaaggaaaa gataaaagggt ttctaaaaa tgacggagggt 240
tgagatgaag cttctctcatg gagtaaaaaa tgtattttaa agaaaaattga gagaaggagc 300
tacagagccc cgaattaataa ccaatagaag ggcaatgctt ttagatttaa atgaagggtga 360
cttaaacagc ttaaaagtta ntttaaaagt tgtagggtgat taaaataatt tgaaggcgat 420
cttttaaaaa gagatttaac ccgaagggtga ttaaaagacc ttgaaatcca tgacgccagg 480
gagaattgcc gtcatttaaa gcctagttaa c
```


<210> 357
 <211> 511
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> misc_feature
 <222> 339, 457, 475, 486
 <223> n = A,T,C or G

```
<400> 357
gatacttcac atttccttag ggacgggagc cggaggggtc cgttcggccc tcttcctctc 60
gctggggccga caccocgtg taggaccgta acccttagtc ccaatgcctc cgtaagcga 120
gttgagtggg tgccgtgtgtg tggagctgtg gaggtgtccc cggtgccgag cgcggccaga 180
actgcggtca cttaagtttt ccgtgtgcgg gttgcaagga gcgtgcgtgc gtctggtata 240
atttggtctc ctgagattct gcttacaaga aaggagtggg aaataccctt ggaaagaaaa 300
ctaaaacagt aagaaaaacca aaacttattt ttacatggnt gtcagcacat ttaccgatat 360
ggacactttt cccaataatt tcctcctggt ggagacagt gattgacagg ttctcagtcg 420
gaattccaga aaaatgttaa ttgatgaaaa gggtagacatg tgagcatcat aaagntaatt 480
attaanacac tgaaggctga acacacaagg g 511
```

<210> 358
 <211> 401
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 358, 361, 372, 374, 386
 <223> n = A,T,C or G

```
<400> 358
acggatgaag atgatgacct tcaagaaaat gaagacaata aacaacataa agaaagcttg 60
aaaagagtga cttttgcttt accagatgat ggggaaactg aagatacagg tgttttaaat 120
gtaaaagaaaa attctgatga agttaaattc tcctttgaaa aaagacagga aaagatgaat 180
gaaaaaattg catctttaga aaaagagtgt ttagaaaaaa agcccggtgc agcttcaggg 240
ggaagtgcga gcacagaaga ggccagagaa cacctcctgg aggagacctt acctttgcca 300
tctgcccgat ggccctgtga ttacagagga acccccttca ctggagattt ctttaacnga 360
ngatagagat cngnttggga tatgntcctt taagaaaacc t 401
```

<210> 359
 <211> 511
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 299, 318, 363, 381, 395, 412
 <223> n = A,T,C or G

```
<400> 359
gcgatgccg cgcgccccag acgcctcctc ccgctgctgg ccggcccgcc ggcctgaact 60
gcgctgctgc tgctgctgct gggccatggc ggccggcgcc gctggggcgc ccgggccagg 120
gagggcgccg cggcgccggc ggacggggcc ccgcggcgag acggcgagga cggacaggac 180
ccgcacagca agcacctgtg cacggccgac atgttcacgc accgggatcca gagecccgcc 240
gcacttcgtc atgttcctgc gcocctggtg tggacacttg ccagcgcttt gcagcccgant 300
ttggaatgac cttgggganga acaaatataa cagcatggaa agaattgccaa aagtctatgt 360
ggnntaaagt ggacttgcaac nggccacttc gactngtgct cccccaaggg gnggggaagt 420
```

```

accaccctta aaacttttca accaagccaa aaactttgaa aaccaggtct cggattcaaa 480
atggaaaact gatgttcaac ctgaacaaga a 511

```

```

<210> 360
<211> 511
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 182, 187, 207, 218, 311, 359, 390, 401, 405, 412, 413, 435,
441
<223> n = A,T,C or G

```

```

<400> 360
tactgggaga ctttgagatt gagtccaaac agctggaagc agagtcttgg agtcggataa 60
tagacagcaa gttttctaaa cagcaaaaaga aagatgtggt caaacggcaa gaagtaatat 120
atgagttgat gcagacagag ttctcatcatg tcccgactct caagatcatg agtgggttgt 180
cnagccnggg gatgatggcg gatctgnitt ttgagcanca gatggtagaa aaagctgggt 240
ccctgtttgg atgagcttga tcagtatccc ataccattc ttccagagg attcttggag 300
ccggaagaag nggagttctt ttggtgggat aaaaagttaa aaagaacttt ctcttcaana 360
aggatagggg gatgtgcttt gtaaaatcan tttttcaggg ngganaatgc cnaaacgctt 420
ttaaagaaaa acatnttggg naagtttttg tgggccaaca ttaccgggtc ttgtaaacct 480
accttcaaaag aacctttttg cccagggtta a 511

```

```

<210> 361
<211> 411
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 228, 230, 338, 339, 348, 358, 379
<223> n = A,T,C or G

```

```

<400> 361
gctcagcgcc ccatccccc ggaagcgccg tcggagggggt gggaccggcg cggaccggag 60
atggcgccgc cagcgggcgg ggcggcgccg gcggcctcgg acttggggctc cgccgcagtg 120
ctcttgcttg tgcaagcgcc ggtgaggccg ctggggcgcc gccagacgc cgaagacaaa 180
cttgccggaag ctgcagctta acgcggaacc tgagaagcct ggcgcttncn gctggaactt 240
cttgggcgcc gacctggggc ggtaatttga gtggccctga gtcatttcta caccatccag 300
gccaccaca cgactaagct cacaagaagg ctgaactnnc tgattctnaa cctagaanta 360
cgtgcactta tcagtgceng aagaatgac aacataccac tggcaactct g 411

```

```

<210> 362
<211> 511
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 472, 483, 500, 510
<223> n = A,T,C or G

```

```

<400> 362
cgggggacgc ggctgccttg gccctcagc gctcgcgtct tttcggcgag ttggaacgct 60
tctgtgtgct ctcacccgta accgcctgtt gccccctgtc tcagagtcac tcacgcgtac 120
cctcccgctc ttggctcgtt ggctgccgcc gccggggcct cgcagcctt caagtgcaga 180

```

```

ctactggcgcg aaggggcgctc tgcggctctc cgccgtcccc agccctgcct ctccctgggc 240
tctgccatgg caatgacagg ctcaacacct tgcctcatcca tgagtaacca cacaaaggaa 300
aggggtgacaa tgacacaaag tgacactgga gaatttttat agcaacctta tcgctcacat 360
gaagaacgag aatatgagaca aaagaagtta gaaaaagggg atggaagaag aaggcctaaa 420
aaaatgaagg agaaaaccaa ctcccgaaaga tcaaccacat tgcttcggaa anggaaacaa 480
aantttcttt ogtttgaan aaaaacaaan a

```

<210> 363

<211> 401

<212> DNA

<213> Homo sapiens

<400> 363

```

caggatctgg ggagaaagag ccccatccct tctctctctg ccaccatttc ggacaccccg 60
cagggactcg ttttgggatt cgcactgact tcaaggaagg acggaaccc tctcttgacc 120
ccagctcggg cggccacctc tctttgcgcg ggtgaccctt ctctcatgac cctgcggtgc 180
cttgagccct ccgggaatgg cggggaaggg acgcgagacc agtgggggac cgcggggtcg 240
gcggaggagc catcccgca gcggcgcgct ctggcgagg cctgcggga gctcggtcag 300
acaggatggt actggggaag tatgactgtt aatgaagcca aagagaattt aaaagaggca 360
ccagaaggaa ctttcttgat tagagatagc tcgcattcag a

```

<210> 364

<211> 401

<212> DNA

<213> Homo sapiens

<400> 364

```

agtcaaaagt ttcttttccc tttttaccat ggtttctaca aaaataacct tcaggaaaaa 60
gaaatcaggg aaaaaaattt tttttcaata atcttattcc ctatattaaa ttgatattga 120
agaggattaa cgttggttta gtttgggtcc agatcagcct tatacaacat ttctaaactc 180
atttgtactt ttaaaaaatt taaacacaga ctcttaaaat tacttgatgt aagtaattta 240
aatcacttat gaccaagtta ttaaccttat gaactcagaag ctgaccctt gtaggaaatt 300
atatccacat ataaagtaca toagatcttt gccatatatt gatgggtatt atgcataaac 360
acattgagtt gtgttggaag cagatttata aacctgcagt t

```

<210> 365

<211> 361

<212> DNA

<213> Homo sapiens

<400> 365

```

atctggagtt gcacaaatag ttcttttagaa cataaaaacta aatggattta tacataacag 60
ttacattcag catttaagag aggcagtaca aaaatgtggt ctgcttttat ctgatataaa 120
ttgcattgaa taccattgatt taacaatat cagtttatatt aactaatgco atgatatata 180
tcttactacg aacgtctgat gtttcccata atagacagaa aaaatgcagt tgtatgagca 240
actgagtttc ttttcatctt caaatctatt tgtgatggtg ggaagatcta aggacaatcc 300
ttccattgaa gaagtaggaa aaacagttca gcactgttct gaactcatca aaaatgaatt 360
t

```

<210> 366

<211> 401

<212> DNA

<213> Homo sapiens

<400> 366

```

cgggagcagc agaggtctag cagccggggc cgccggggcg ggggcctgag gaggccacag 60
gacggggcgtc ttcccggtca gtggagcccg gcgcggggcc cgctgcggcc gcaccgtgag 120
gggaggaggcg cgaggaggac gcagcgccgg ctgcggcgcg gaggaaagcgc tccaccaggg 180

```

```

ccccgcagcg cactcgttta accacatccg cgcctctgct ggaaacgctt gctggcgctt 240
gtacccggtt ccctccattt tgaaaggaa aaaggctctc cccaccatt cccctgccc 300
taggagctcg agccggagga gccgcgctca tggcgctcag cccgtgagc atccctgtccc 360
ccgtgcagtg ggcgaatagg acgtggtctg cgttacgcgc c
401

```

<210> 367

<211> 401

<212> DNA

<213> Homo sapiens

<400> 367

```

catggagtcg ggcaagatgg cgcctcccaa gaacgctccg agagatgcct tggatgatggc 60
acagatcctg aaggatatgg gaatcacaga gtatgaacca agggttataa atcaaatggt 120
ggaatttgtt ttccgttatg tgactacaat tctggatgat gcaaaaattt attcgagcca 180
tgctaagaaa cctaagtgtg atgcagatga tgtgagactg gcaatccagt gtcgtgctga 240
ccaatctttt acctctcttc ccccaagaga ttttttactg gatatcgcaa ggcagaaaaa 300
tcaaacccct ttgccaactg ttaagccata tgcaggacct agaactgcaa ctgatagata 360
ctgcttaaca gctccaaact ataggctgaa gtccttaatt a
401

```

<210> 368

<211> 401

<212> DNA

<213> Homo sapiens

<400> 368

```

cggagcggta ggagcagcaa tttatccgtg tgcagcccca aactggaaag aagatgctaa 60
ttaaagttaa gacgtgacc ggaaaggaga ttgagattga cattgaacct acagacaagg 120
tgagcgaat caaggagcgt gtggaggaga aagagggaaat cccccacaa cagcagaggc 180
tcattacag tggcaagcag atgaatgatg agaagacagc agctgattac aagattttag 240
gtggttcagt ccttcaactg gtgttggtc tcagaggag aggtggtcct aggcagtgat 300
ggaccctcca ttttaacctt ttacctctgc gctcataatg aggcataata tatcctotca 360
ctctctggga caccatagcc ctgccccctc ccttggtatg c
401

```

<210> 369

<211> 174

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 6, 7

<223> n = A,T,C or G

<400> 369

```

gcgagnnngg cgccaagcgc ggggccggag cggccttccc ggagtccttt gcgeggccacc 60
tggcgacaaa atggctgccc gagggagacg ggcggagcct cagggccggg aggcctcggg 120
cccccgggc ggtggcggtg gggggagccg ttgggctgag tcgggatcgg ggac
174

```

<210> 370

<211> 375

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 89, 117, 147, 232

<223> n = A,T,C or G

```

<400> 370
tgctttttcca actttattta gaaaaacaaa tccagggtccc agtgcctccc gtacctccc 60
cgaccccgagc cataatttaa ataacttana gacagagttg gagggagggg acagganag 120
ttgggggtcac ggtggaagga ggaaganagc ccactacagc cggcgagcgc cccgtctctt 180
gtccgtctttt ttottggccg ccagottott atcgcgctcg ccagcatgct tnttggccat 240
gggaacctca gccctctccg ggcccccctgg ggcccccaggg tcgggtggag aagcttcagt 300
gcacactggcc agggcccgac cggcttcggc cctgcgcgtg ggcccgccgg cggcccgctg 360
gatctctgtg agcag
375

```

```

<210> 371
<211> 375
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 114, 188, 317
<223> n = A,T,C or G

```

```

<400> 371
taaatcttaa aaaaattttt aatacttgaa aaacttctaaa acaaaaggta aggtaacatg 60
ttctttcaaa agtgaatttc acatgcaaac cattaattat atttatttta ctngagata 120
aaagcaaaaac ataacattcg gagaagaga ccagtaactg aactatttat tttatattat 180
attaatgnga atcttcattt gaaatgtgat aacgttattg cacaacaaaa accgtgggca 240
gaacatccc agcaatgcag gggcgcccat accgggttac aagggatgtc cagcatgtgt 300
ttccctgtaa cactcanagt ctgcactttt cctgcaaatg ggacatgtgc tgattattta 360
ttatgaaaga acact
375

```

```

<210> 372
<211> 164
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 9
<223> n = A,T,C or G

```

```

<400> 372
cgctctgtnt cctcaacctc tacctggcgg aggttatatg taaagtcaga tgtgccactg 60
aacctgacag acacaaaatt ctactgcatt tgggttttat aatggcaagc ctgctctttt 120
tagtggtgaa cttgacttgc gcaatgctag ttcacggaga tgtc
164

```

```

<210> 373
<211> 401
<212> DNA
<213> Homo sapiens

```

```

<400> 373
ggcgtgttgc cotttgccta cctgcagctg tggcggtgtc tctgtaccg cgagcgggcg 60
ctgagttacc agagctctct cctcttctct tgtctcctgt ggcgagcgt caggaccacc 120
ctcttctcgc cggccttctc gctcagcgcc tccctgccct tgcctcggcc gcccgctcac 180
ctgcaattct tcccccacgt gctgctctac tgcctccctc cctgtctcca gttctccacg 240
ctctgtctcc tcaacctcta cctggcggag gttatatgta aagtcagatg tgcoactgaa 300
cttgacagac aaaaattctt actgcatttg ggcattataa tggcaagcct gctcttttta 360
gtggtgaact tgacttgcgc aatgctagtt catggagatg t
401

```

```

<210> 374

```

<211> 401

<212> DNA

<213> Homo sapiens

<400> 374

```

ggaatgatac cattcagatt gatttggaga ctgggcaagat tactgatttc atcaagtctg 60
acaactggtaa cctgtgtatg gtgactggag gtgctaacct aggaagaatt ggtgtgatca 120
ccaacagaga gaggcacctt ggatcctttg acgtggttca cgtgaaagat gccaatggca 180
acagcttttgc cactcgactt tccaacattt ttgttatttg caaggggcaac aaacctatgga 240
ttttctctcc ccgaggaaa ggtatccgcc tcaccattgc tgaagagaga gacaaaagac 300
tgggggccaa acagagcagt ggtgaaatg ggtccctggg tgacatgtca gatctttgta 360
cgtaattaaa aatatgttgg caggattaat agcaaaaaaa a 401

```

<210> 375

<211> 401

<212> DNA

<213> Homo sapiens

<400> 375

```

gagcggagtc cgtcggtctga cccgagcgtt ggtctccgcc gggaaccttg gggcatggag 60
aggctctgagt acctcggcgc cggcgcaacgc tgcctcgcgg agccaggcgc aggaactgag 120
ggtggagggc tcctttcccg tgaccatgct tccggggagac ggtgtggggc ctgagctgat 180
gcacgcgcctc aaggaggtgt tcaaggctgc cgcgtgtcca gtggagttcc agggacacca 240
octgagttag gtgcagaata tggcatctga ggagaagctg gagcaggtgc tgagtcccat 300
gaaggagaac aaagtggcca tcattggaaa gattcatacc ccgatggagt ataaggggga 360
gctagcctcc tatgatatgc ggctgaggcg taagtggagc t 401

```

<210> 376

<211> 284

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 86, 260

<223> n = A,T,C or G

<400> 376

```

ggaacaaggt cgtgaaaaaa aaggtcttgg tgaggtgcgc ccatttcac tgtctcatt 60
ctctgcgcct ttcgcagagc ttccancagc tggatgttgg gccagagca tcggagggtt 120
cacaacctct gtggtcogta ggagccacta tgaggagggc cctgggaaga atttgccatt 180
ttcagtgga aacaagtgtt cgttactagc taagatgtgt ttgtacttgg gatctgcatt 240
tgctacaccc ttcctgttan taagacacca actgcttaaa acat 284

```

<210> 377

<211> 401

<212> DNA

<213> Homo sapiens

<400> 377

```

atttatgtta ttgcactctc ggtgtgattt atcgtatgta totgataggt tttatgaatt 60
gtttttagtt gtaaacctct atacccttta ttaaaatgga cctaattaag tgatttatgc 120
tttgtgcaat ttcttaaatc agatctctct aggatggaag ggaatccatg gtatctttca 180
cttagtgtga agoctagtag tatactttta tattctctgaa gagagaccag cattaacata 240
aagagagaag tottaggaaa aaatatacct aagaattatt tttaaaattc atactgtgaa 300
ggagaactct cctgcctatt tctctccaa atttcagaaa ataacacaga gtgctatttg 360
cctgaacttt aatgagcttg actttgttat gattcaggga g 401

```

<210> 378
 <211> 401
 <212> DNA
 <213> Homo sapiens

<400> 378
 ccagaacaca ggtgtcgtga aaactacccc taaaagccaa aatgggaaag gaaaagactc 60
 atatcaaat tgctgtcatt ggacacgtag attcgggcaa gtccaccact actggccatc 120
 tgatctataa atgcgggtggc atcgacaaaa gaaccattga aaaatttgag aaggaggtcg 180
 ctgagatggg aaagggtccc ttcaaagtatg cctgggtcctt ggataaaactg aaagctgagc 240
 gtgaacgtgg tatcaccatt gatattctct tgtggaaatt tgagaccagc aagtactatg 300
 tgactatcat tgatgcccca ggacacagag actttatcaa aaacatgatt acagggacat 360
 ctcaggctga ctgtgctgtc ctgattgttg ctgctggtgt t 401

<210> 379
 <211> 401
 <212> DNA
 <213> Homo sapiens

<400> 379
 tcagatatca ggtggcttct tcaaatgatt ttaagtatc tcgatgatga tgaagaacaa 60
 agacatcaat caggattcag gaagacagct ttctcggaag atgcttaaaag ggaagcatca 120
 aggattggtg ttgatatttg aaagttaaag agtgggtatc ttttattcag tcaacacatg 180
 acaaatgtaa aaggcactca tttgttgttc ctggaagaag cctgggcagca ttccattcag 240
 acatctgccc ttctatcgtc ccacttttta cttattgcag tccctttcagt ctgaatattt 300
 cctcctgaag catcttctgc cgtccgaaat gactccctgc tccagatcc tgtagccctt 360
 attattgaca cctttcattt agaaatttag cacatgtcac a 401

<210> 380
 <211> 401
 <212> DNA
 <213> Homo sapiens

<400> 380
 cctgactctc tgaggctcat tttgcagttg ttgaaattgt ccccgcgatt ttcaatcatg 60
 tctgaaccaa tcagagtccct tgtgactgga gcagctggtc aaattgcata ttactgtctg 120
 tacagtattg gaaatggatc tgtctttggt aaagatcagc ctataattct tgtgctgttg 180
 gatatacccc ccatgatggg tgtcctggac ggtgtcctaa tggaactgca agactgtgcc 240
 cttccctccc tgaaagatgt catcgcaaca gataaagaag acgttgccct caaagacctg 300
 gatgtggcca ttcttgtggg ctccatgccca agaaggggaag gcattggagag aaaagattta 360
 ctgaaagcaa atgtgaaat cttcaaatcc cagggtgcag c 401

<210> 381
 <211> 401
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 90, 93
 <223> n = A,T,C or G

<400> 381
 ggggcttcgc tggcagtcgt aacggcaagc ttgagcaacg cggtaaaaaa attgcttcgg 60
 tgggtgagcg ggtacagctg tccaagggcn ttngtaacgg gaatgccgaa gcgtgggaaa 120
 aagggagcgg tggcggaaga cggggatgag ctcaggacag agccagagcg caagaagagt 180
 aagcagcccg caaagaaaaa tgacaaagag gcagcaggag agggcccgag cctgtatgag 240
 gacccccag atcagaaaac ctccaccagt ggcaaacctg ccacactcaa gatctgctct 300

tggaatgtgg atgggcttcg agcctggatt aagaagaaag gattagattg ggtaaaggaa 360
gaagcccccag atatactgtg ccttcaagag accaaatgtt c 401

<210> 382
<211> 491
<212> DNA
<213> Homo sapiens

<400> 382
gagcagcccc cgcgcggtga aagccggggc agaagtgtct gtctcggtcg ggattccggg 60
cttggctccca ccgaggcggc gactgcggtg ggagggaaga ggttttggac gcgctggcct 120
cccgcgcgtg tgcattgcag cattatttca gttcaaaatg aactatatgc ctggcaccgc 180
cagccctcatc gaggacattg acaaaaagca cttgggttctg cttcgagatg gaaggacact 240
tataggctttt ttaagaagca ttgatcaatt tgc aaactta gtgctacatc agactgtgga 300
gcgtattcat gtgggcaaaa aatacgggtg tattcctcga gggatttttg tggtcagagg 360
agaaaaatgtg gtccctactag gagaataga cttggaaaag gagagtgcac caccctccca 420
gcaagtatcc attgaagaaa ttctagaaga acaagggtg gaacagcaga ccaagctgga 480
agcagagaag t 491

<210> 383
<211> 491
<212> DNA
<213> Homo sapiens

<400> 383
gagtcacatct cagcgctctg aaaatgcagt gaaaaaacct gaagataaaa aggaagtttt 60
cagaccctctc aagcctgctg gcgaagtgga tctgaccgca ctggccaaag agcttcgagc 120
agtggaaagt gtacggccac ctccacaaagt aacggactac tctctcatca gtgaggagtc 180
ggggaccgacg gatgaggagg acgacgatgt ggagcaggaa ggggctgacg agtccacctc 240
aggaccagag gacaccagag cagcgctcatc tctgaaattg agcaatgggtg aaacggaatc 300
tgtgaaaacc atgattgtcc atgatgatgt agaaagtgcg ccggccatga ccccatccaa 360
ggagggcact ctaatcgtcc gccagagtac agttgaccaa aagcgtgcga gccatcatga 420
gagcaatggc ttgcccgtgc gcattcacct cttgccagat ctcttacagc aaagccattc 480
ctcctccact t 491

<210> 384
<211> 491
<212> DNA
<213> Homo sapiens

<400> 384
gagcctaactc tcaggtgtgc caccgcgac cccttgagca ccaaccctag tcccccgccg 60
ggccccttatc tcgctccgac aaggtacaaa aaggctcttg accggcgctg ggtaggagga 120
cgggagcggg ggcgggaagt tccctgaagg agcgagacag ggagggacag ggcagaggag 180
gagagggaag cgatgcgacg gacaggcgca ccgcctcagg ctgactctcg ggggcgaggt 240
cgaagccagg gcggtgccc tgggggcgag gcgacgtgtg ctcaacctcc acctcgcggc 300
ggaaccagag gacaggagcc tcagatgaaa gaaacaatca tgaaccagga aaaactcgcc 360
aaactcgagg cacaagtgcg cattggtggg aaaggaaactg ctcgcagaaa gaaggaagtg 420
gttcatagaa cagccacagc agatgacaaa aaacttcagt tctccttaaa gaagttaggg 480
gtaaacaata t 491

<210> 385
<211> 483
<212> DNA
<213> Homo sapiens

<400> 385
agccgctcgg aaggggagccg ccgccatgtc tgcgcactcg caatggatgg tcgtgcggaa 60


```

ctgtctccagt ttctctgatca agaggaataa gcagacctac agcactgagc ccaataaactt 120
gaagggccgc aattctcttcc gctacaacgg actgattcac cgcaagactg tggggcgtgga 180
gccgggacgc gacggcaaaag gtgtcgtggt ggtcattaaag cggagatccg gccagcggaa 240
gcctgccacc tctctatgtgc ggaccaccat caacaagaat gctcgcgcga cgctcagcag 300
catcagacac atgatccgca agaacaagta ccgcccgac ctgcgcgatgg cagccatccg 360
cagggccagc gccatctctgc gcagccagaa gcctgtgatg gtgaagagga agcgcgaccg 420
ccccaccaag agctcctgag cccctcgccc ccagagcaat aaagtacgct ggctttctca 480
cct

```

<210> 386

<211> 491

<212> DNA

<213> Homo sapiens

<400> 386

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agggtggaag aaaaaacata aatgaagtta atgcacttct tttcctagcc caaaagtcac 60
tgtgattata tttttttaat gaagtttaga aaaaagctg ttgtcttctc aattgtaaaa 120
ttagtttcaa aatgctgctt ctcttatcat tagtctagta attgttgaa ttttctgcaa 180
actgcatttt acaaaatga aacttggaag ctgtattaac tttttagatt aaacattgta 240
ttaaataaaa tatactataa taaacagttt ggttttgat tttttaaatt gtattatcca 300
gcctttttaa aattaaaagc taaataatga aaataaacca attaaaacat acttttactc 360
tcagatatac aggtattttac attatgaaaa aactgaacaa agtttttaaca atactgagct 420
ttaagaattt agccagcagg gaaaatttcc aggtttgaga atgttctaat gtaaatattt 480
aatcataata c

```

<210> 387

<211> 491

<212> DNA

<213> Homo sapiens

<400> 387

```

ccacaccacc gtgtcccaag tccagccccc tccctccaag gcactagcac ctgaaacccc 60
tgcaagaaga gaagtggcaa ctggtacaac ctacgacctc gatgaactgg aagccctggg 120
tacactgagc ctgggggacca cagaggagaa ggcagcagct gaggcggctg tgcccaggac 180
catttggggcc gagctgatgg agctgggtgc gagaaacact ggccctgagc acgaattatg 240
ccgggtggcc atcggcatca tagtgggtca catccaggcc tcgggtgcgg ccagctcacc 300
agtcattgga caggtctccg tctcactcgt agagggcaag gacctcagca tggccctgcc 360
ctcaggggac gtctgccacg accagcagag gctggaggtg atctttgcag acctggctcg 420
ccggaaggac gcgcccagc agcgcgattg ggcactatat gaggatgagg gtgtcatccg 480
ctgctacctc g

```

<210> 388

<211> 491

<212> DNA

<213> Homo sapiens

<400> 388

```

gagactatca aactcctgag ccaacaactt aatatgacta gcttacacaa tagcttttat 60
agtaagata cctcttttac gactccactt atgactccct aaagcccatg tcgaagcccc 120
catcgctggg tcaatagtac ttgcccgagt actcttgaaa ctaggcggct atgggtataat 180
acgcctcaca ctcatcttca accccctgac aaaacacata gccctacccc tcccttgact 240
atccctatga ggcataatta taacaagctc catctgccta cgacaaacag acctaaaaac 300
gtctattgca tactcttcaa tcagccacat agccctcgta gtaacagcca ttctcatcca 360
aacccccga agcttccacg gcgcagtcct tctcataatc cccacagggc ttcatctccc 420
attactattc tgcttagcaa actcaaaact cgaacgcact cacagtcgca tcaataatcc 480
ctctcaaggc c

```

<210> 389

<211> 511
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> misc_feature
 <222> 43, 133, 185, 226, 254, 256, 303
 <223> n = A,T,C or G

<400> 389
 tactgatatac tctttaataac ttctcatcatt caagttttgtt canaacatta caagaggcat 60
 gaagaaaaa ataattccat ttttaaaact ctgtctgttcc aaagtataac atatgaaacc 120
 atgccattat ctntttaggaa acaaaaagcat ttgtgttatta aagttcaaga 180
 ttcanactaa cctcaaaagta cggcatgtgc agtgttttaag tgcaanaagt attttcattc 240
 caattatttt acananaatgc tggagtgcacg tgtgcaatatt gaaatattca aatcctttaa 300
 ggnnttctgaa ctaagtgttt aaatgaaaac tgaaatgctg catagtttca gtggccttca 360
 atttctctgtt tgatctcaga aatatatgga tgatctttgc cgtgagctac ttccatgatt 420
 gcaatggcct tcttcagggc ttctcccccgt gcggtttgtt gttccaggcc catgtagagt 480
 ctccctagct tcaaccacat ggaggccacg t 511

<210> 390
 <211> 1984
 <212> DNA
 <213> Homo sapiens

<400> 390
 cctgggggtta gaggtctgggg tgggtggggg gtaagggggc agtctctctc cctctcgacg 60
 ggggctccga gtccagcccc ttccctcccg cgtctgtctg cccggccccc agccccctca 120
 tgagggtgtc cgtgcgggggt ccggcgggcgg ctgcgcggccc cgcagccgco cgcgagccct 180
 ccacgcccgg cggggggcagc ggaggcggag gcgcgcgtgc tgcagctca ggcgcggcgt 240
 tgcggggctc cgtgcagttg gcgctgagcg tctgtcacgc cctgctctac gcgcgcgtgt 300
 tgccttttgc ctacctgcag ctgtggcgccg tgcctctgta ccgcgacgag cggctgagtt 360
 accagagcct ctgcctcttc ctctgtctcc tgtgggcagc gctcaggacc accctctctc 420
 ccgcgcgctt ctgcctcagc ggctccctgc ccttgcctcg gccgcgcgt caccctgcat 480
 tcttccccca ctggctgtct tactgcttcc cctctgtct ccagttctcc acgctctgtc 540
 tctcacaact ctacctggcg gaggttatat gtaaaagtcag atgtgacct gaacttgaca 600
 gacacaaaat tctactgcat ttgggcttta taatggcaag cctgctcttt ttagtggtga 660
 acttgacttg ccgaatgcta gtctcatggag atgtcccaga aaatcagttg aagtggactg 720
 tgtttgttgc agcattaatt aatgatagac tgtttattct tgtgacctc ttttagtgt 780
 gttacatatg caaaattaca aaaatgtcat cagctaattgt ctacctcgaa tcaaaagggt 840
 tgtctctgtg ccagactgtc atcgtgggct ctgtagtcat tctttgttac tcttccagag 900
 ctgttatataa ttgtgtgtgt gtcacccatc ctcaaggatac atagaaaagt ccatttaatt 960
 atggctggga taactcttca gataaggctc atgtagaaga cataagtga gaagagtata 1020
 tagtatttgg aatggtcttc ttctctgtgg aacatgtgcc agcatggctg ttggtactct 1080
 ttttccggcg acagagatta aaccagaatt tggcacctgc tggcatgata aatagtca 1140
 gttatattgc cacagcttac tttttcgaca atccaaagc atatgatagt gatgatga 1200
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 tttctataaa tgtgtatatc caatgtgttt aaattccatc tacataaaca ttccattatc 1500
 tgttgcaact gaaaacaaaaa totggaagtg tggctgtgtt tggtaaaataa cacagctatt 1560
 atttttgacc tcttcatagt aaaaatgaagt aaaaatggaaa gttttggagta ggagaaaaga 1620
 gagagttagt cttaagcgac ttgatggcct ccaaaaatcc gtaactttgga acatcaaatg 1680
 catatgtgca cttttatgtt ttttctgagt cactgcagtc cccaagtcca tatgccaatg 1740
 ttcaactga aatactgtat tgtacaccaa actgggaagc acttttctta tgaaaatcaa 1800
 agccggataa ttcaattggta tgcctctatac agatatctta ataaaaattt tatagtgtga 1860
 acagtgcaca gagttaagggc ataaaaatgt atcattcttt ataaaaattc actgaaaatg 1920

tgtaatcatt gaagacagtt cttttaagca tgattttaaa atagcaactg aaattcaatc 1980
attt 1984

<210> 391

<211> 429

<212> PRT

<213> Homo sapien

<400> 391

Met Arg Val Ser Val Pro Gly Pro Ala Ala Ala Ala Ala Pro Ala Ala

5 10 15

Gly Arg Glu Pro Ser Thr Pro Gly Gly Gly Ser Gly Gly Gly Gly Ala
20 25 30

Val Ala Ala Ala Ser Gly Ala Ala Val Pro Gly Ser Val Gln Leu Ala
35 40 45

Leu Ser Val Leu His Ala Leu Leu Tyr Ala Ala Leu Phe Ala Phe Ala
50 55 60

Tyr Leu Gln Leu Trp Arg Leu Leu Leu Tyr Arg Glu Arg Arg Leu Ser
65 70 75 80

Tyr Gln Ser Leu Cys Leu Phe Leu Cys Leu Leu Trp Ala Ala Leu Arg
85 90 95

Thr Thr Leu Phe Ser Ala Ala Phe Ser Leu Ser Gly Ser Leu Pro Leu
100 105 110

Leu Arg Pro Pro Ala His Leu His Phe Phe Pro His Trp Leu Leu Tyr
115 120 125

Cys Phe Pro Ser Cys Leu Gln Phe Ser Thr Leu Cys Leu Leu Asn Leu
130 135 140

Tyr Leu Ala Glu Val Ile Cys Lys Val Arg Cys Ala Thr Glu Leu Asp
145 150 155 160

Arg His Lys Ile Leu Leu His Leu Gly Phe Ile Met Ala Ser Leu Leu
165 170 175

Phe Leu Val Val Asn Leu Thr Cys Ala Met Leu Val His Gly Asp Val
180 185 190

Pro Glu Asn Gln Leu Lys Trp Thr Val Phe Val Arg Ala Leu Ile Asn
195 200 205

Asp Ser Leu Phe Ile Leu Cys Ala Ile Ser Leu Val Cys Tyr Ile Cys
210 215 220

Lys Ile Thr Lys Met Ser Ser Ala Asn Val Tyr Leu Glu Ser Lys Gly
225 230 235 240

Met Ser Leu Cys Gln Thr Val Ile Val Gly Ser Val Val Ile Leu Leu
245 250 255

Tyr Ser Ser Arg Ala Cys Tyr Asn Leu Val Val Val Thr Ile Ser Gln
 260 265 270
 Asp Thr Leu Glu Ser Pro Phe Asn Tyr Gly Trp Asp Asn Leu Ser Asp
 275 280 285
 Lys Ala His Val Glu Asp Ile Ser Gly Glu Glu Tyr Ile Val Phe Gly
 290 295 300
 Met Val Leu Phe Leu Trp Glu His Val Pro Ala Trp Ser Val Val Leu
 305 310 315 320
 Phe Phe Arg Ala Gln Arg Leu Asn Gln Asn Leu Ala Pro Ala Gly Met
 325 330 335
 Ile Asn Ser His Ser Tyr Ser Ser Arg Ala Tyr Phe Phe Asp Asn Pro
 340 345 350
 Arg Arg Tyr Asp Ser Asp Asp Asp Leu Pro Arg Leu Gly Ser Ser Arg
 355 360 365
 Glu Gly Ser Leu Pro Asn Ser Gln Ser Leu Gly Trp Tyr Gly Thr Met
 370 375 380
 Thr Gly Cys Gly Ser Ser Ser Tyr Thr Val Thr Pro His Leu Asn Gly
 385 390 395 400
 Pro Met Thr Asp Thr Ala Pro Leu Leu Phe Thr Cys Ser Asn Leu Asp
 405 410 415
 Leu Asn Asn His His Ser Leu Tyr Val Thr Pro Gln Asn
 420 425
 <210> 392
 <211> 1584
 <212> DNA
 <213> Homo sapiens
 <400> 392
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 cccggctggt gctgcggggg ccccgaggag ttgaaaacta agcatgggga agagctgcaa 120
 ggtggtcgtg ttgggccagg cgtctgtggg caaaacttca atcctggagc agcttctgta 180
 tgggaaccaa gtatgggtt cggagatgat cgagacgcag gaggacatct acgtgggctc 240
 cattgagaca gaccgggggg tgcagagaca ggtgcgtttc tatgacaccc gggggctccg 300
 agatggggcc caactgcacc gaaactgctt ctcttgcaact gatgggtacg toctgtgcta 360
 tagcacagat agcagagagt cttttcagct ttgtggagctg ctcaagaagag agattgacaa 420
 atccaaggac aagaaggagg tcaccatcgt ggtccttgcc aacaagtgtg acttacagga 480
 gcagcggcgt gtagaccag atgtgggtca gcactgggcc aagtoagaga aggtgaagct 540
 gtggggagtg tcagtggcgg accggcgctc cctcctggag cctttgtctt acttggccag 600
 caagatgacg caaccccca gcaagtctgc ctccccctc agccggaaga acaagggcag 660
 cggtcctctg gatggctgaa gagctgcgct tcctctttca cgatcccagc cccatttcag 720
 tgtctggggc tctggtagat gtgttgaggg caaagttaga gacaagtgtt ctttcccagt 780
 cagccaggga gctcccgcgc aggccacgccc ccagccactt tgcctccctc cactctggg 840
 aagtgcacaa actcttggtt gacatccccc tcctcagccc tcaccagccta ctccccatcc 900
 cagcttttag aggatctgct ccaactgtctc ctggggcagt ttgtgggtcac gtcccttccc 960
 agctgcccca gacaggaagc agagtaccca cgcagcagtg tccctctctt ggtctgagtt 1020
 cctattatag gtaggggccc caccctctgg gcttccatc agcgacacac acacacttat 1080

```

ggcaccagcc  tggactccag  aaaaagggtg  tccaggtatt  gtgtgtatgc  atttagttgt  1140
gcacacacaa  atatgtcctc  atactggcat  taggcgtctc  ctcacccctc  accctgacct  1200
ttctcctgtc  cttttcttgg  ctggaagaag  ttggcctcct  gggagtgtag  ttttctgttt  1260
taaatcccc  acccctggct  gggctcagtg  gctcaccctc  gtaatccagc  cactttggga  1320
ggccaaggcg  ggctcgattac  ttgaggtcag  gagttcacga  ccagcctggc  caacattgtg  1380
aaaccccatc  tctgccaaaa  atacaaaagt  tagcggggcg  tagtggcaca  tgcctgtaat  1440
cccagctacc  cggggaggtc  gaggcaggag  aattgcttga  actcagaagg  cggagggtgc  1500
agtgagccga  gatcgtgcc  ctgcactcca  gcctggtcaa  cagagcaaga  ctccatctcg  1560
aaaaaaaaa  aaaaaaaact  cgag  1584

```

<210> 393

<211> 191

<212> PRT

<213> Homo sapiens

<400> 393

```

Met Gly Lys Ser Cys Lys Val Val Val Cys Gly Gln Ala Ser Val Gly
      5                      10                      15

```

```

Lys Thr Ser Ile Leu Glu Gln Leu Leu Tyr Gly Asn His Val Val Gly
      20                      25                      30

```

```

Ser Glu Met Ile Glu Thr Gln Glu Asp Ile Tyr Val Gly Ser Ile Glu
      35                      40                      45

```

```

Thr Asp Arg Gly Val Arg Glu Gln Val Arg Phe Tyr Asp Thr Arg Gly
      50                      55                      60

```

```

Leu Arg Asp Gly Ala Glu Leu Pro Arg His Cys Phe Ser Cys Thr Asp
      65                      70                      75                      80

```

```

Gly Tyr Val Leu Val Tyr Ser Thr Asp Ser Arg Glu Ser Phe Gln Arg
      85                      90                      95

```

```

Val Glu Leu Leu Lys Lys Glu Ile Asp Lys Ser Lys Asp Lys Lys Glu
      100                      105                      110

```

```

Val Thr Ile Val Val Leu Gly Asn Lys Cys Asp Leu Gln Glu Gln Arg
      115                      120                      125

```

```

Arg Val Asp Pro Asp Val Ala Gln His Trp Ala Lys Ser Glu Lys Val
      130                      135                      140

```

```

Lys Leu Trp Glu Val Ser Val Ala Asp Arg Arg Ser Leu Leu Glu Pro
      145                      150                      155                      160

```

```

Phe Val Tyr Leu Ala Ser Lys Met Thr Gln Pro Gln Ser Lys Ser Ala
      165                      170                      175

```

```

Phe Pro Leu Ser Arg Lys Asn Lys Gly Ser Gly Ser Leu Asp Gly
      180                      185                      190

```

<210> 394

<211> 1937

<212> DNA

<213> Homo sapiens

<400> 394

```

ccggttcccc cagctctggg taccgggctc tgcctcgctg cgcctatgat ggccatcgct 60
cagtgctcgt gctcagccag aacacaaaagc gtgaatccgg aagaaaaggt caatctggaa 120
acatcaatgc tgcgaagcat attgcagata tcatccgaac attgtttggga cccaagtcca 180
tgatgaagat gctttttggac ccaatgggag gcatttgtgat gaccaatgat ggcaatgcc 240
ttcttcgaga gattcaagtc cagcatccag cggccaagtc catgatcgaa attagccgga 300
cccaggatga agaggttggg gatggggacca catcagtaat tattcttgcga ggggaaatgc 360
tgtctgtagc tgagcaacttc ctggagcagc agatgcaccc aacagtggtg atcagtgctt 420
accgcaaggc attggtatgat atgatcagca ccctaaagaa aataagtatc ccagtcgaca 480
tcagtgacag tgatgatgat ctgaacatca tcaacagctc tattaactacc aaagccatca 540
gtcgggtggc atctttggct tgcaacattg ccttggatgc tgtcaagatg gtacagtgtg 600
aggagaattg tccgaaaagg attgacataa aaaaatatgc aagagtggaa aagatacctg 660
gaggcatcat tgaagactcc tgttgtctgc gtggagtcac gattaacaag gatgtgacc 720
atccacgtat gcggcgctat atcaagaacc ctgcgattgt gctgctggat tcttctctgg 780
aatcaagaa aggagaaagc cagactgaca ttgagattac acgagaggag gacttcaccc 840
gaattctcca gatggaggaa gagtacatcc agcagctctg tgaggacatt atccaactga 900
agccccgatg ggtcatcact gaaaagggca tctcagattt agctcagcac taccttatgc 960
gggccaatat cacagccatc ccgacagatcc ggaagacaga caataatcgc attgctagag 1020
cctgtggggc ccggatagtc agccgacagc aggaactgag agaagattgat gtgtggaacag 1080
gagcaggcct gttggaaatc aagaaaattg gagatgaata cttaacttcc atcactgact 1140
gcaaaggacc caaggcctgc accattctcc tcgggggggc tagcaaaagag attctctcgg 1200
aagtagaacg caacctccag gatgccatgc aagtgtgtcg caatgttctc ctggaccctc 1260
agctggtgcc aggggggtgg gcctccgaga tggctgtggc ccactgcctg acagaaaaat 1320
ccaagcccat gactggttgg gaacaatggc catacagggc tggttgcagg gccctagagg 1380
tcattctcgc taccctgtat cagaactgtg gggccagcac catccgtcta cttaactccc 1440
ttcggggcaa gcacacccag gagaactgtg aggcctgggg tgtaaactgtg gagacgggta 1500
ctttgtgtga catgaaggaa ctgggcatat gggagccatt ggctgtgaag ctgcagactt 1560
ataagacacg agtggagacg gcagttctgc taactgcgaat tgatgcacac gtttcaggcc 1620
acaaaaagaa aggcgatgac cagagccggc aaggcggggc tctctgatgt ggccaggagt 1680
gagtgctagg caaggtcact tcaatgcaca gaaccagcag agtctccctt ttctctgagc 1740
cagtgatgca ggaacactgt ggacgtcttt gttcagaagg gatcagatgt gggggcagcc 1800
cccagtcctt ttctgtccca gctcagtttt ccaaaaagaa ctgacatgta attctctctt 1860
attgaaaggt ttccatttag tttgcttccg atgattaaat ctaagtcatt tgaaaaaaa 1920
aaaaaaaaa actcgag 1937

```

<210> 395

<211> 1675

<212> DNA

<213> Homo sapiens

<400> 395

```

gcgcaaatcg cggctgcgag ccatggagga ggaggcatcg tcccgggggc tgggctgcag 60
caagccgcac ctggagaagc tgacctggg cctacgcgc atcttagaat ctccccagg 120
tgtgactgag gtgacatcca tagaaaagcc tctctgctga cgtcatatga tttctctctg 180
ggacaaaaag aataactgtg tgatgcctga agatgtgaag tttcttacc tgatgacca 240
tggtcttccac atgacatgca gtgtgaagct ggatgagcac atcattccac tgggaagcat 300
ggcaattaac agcatctcaa aactgactca gctcaccag tcttccatgt atcaacttcc 360
taatgcaccc actctggagc acctggagga gatcacacat gaagccatgt atgatagcc 420
agagaagcct cactttgact ctgcgactgt gatatttgag ctggattcat gcaatggcag 480
tgggaaagtt tgccttgtct acaaaagtgg gaaaccagca tagcagaagc actctgagat 540
ctggttctctg gacagagcgt tatactggca ttttctcaca gacaccttca ctgctatta 600
ccgctgtctc atccaccac tgggctgtcc ccagtggcaa tatgcttca ccagctatgg 660
cattagccca caggccaagc aatggttcc catgtataaa cctatcacct acaacacaaa 720
cctgtctaca gaagagaccc actcctttgt gaataagcta gatccagca aagtgttta 780
gagcaagaac aagatgctaa tccaaaaaaa gaaagggcct gtcagactg caggtggcca 840
gaaaggcccc tcaggaccct ccggtccctc cacttctctc actctataat cctctctatg 900
cctctgaaac cccaccggga agtgagcacc ctctccctca actccctacc agctccagag 960
tggtgtgttc catgcacaga tggcctcagg ggtgacctcc agttttgcgt gtggaccgta 1020
ggcctcttcc tagttgaatg accaaaattg taaggctttt agtcccacg acattagcca 1080

```

```

ggctcgtagt gaggcctcca gaggcaggtg tgctgtcccc tgccctctgga agcaatgggg 1140
aatttgaat cttgtgtaag tgcccaaata agtctgagtg ctttctcttt cttcaacact 1200
caaccctcaa tcccttagca ctgattgatt agagaggtcc cccaaagaaa ccactgggtt 1260
tgaccocatga agcattagaa ctgcattggt cattcaggag ccactagtca catatgacta 1320
tttaaattta aagtaaatg tatgaaaaat tcatttcttc aattgcatta gccacatttt 1380
gagtattcat gtggctggta gattctgtat tagcacaaaag atatgggaaca ttcccatcac 1440
cacagaaagt tctgttggac agcaactgcat tagaataattt tcatactgct cttcctcaat 1500
taatttttgt tgtaaatgtt gatgtcttca ttggatgggt cataatgttc catgaaacot 1560
ctcaagtaca caattgatg ttctttgtat ccctaccac aaatatctcg ctctgctcat 1620
ttcttttgca gcttctcata aagtttgtct tcctcatcaa aaaaaaaaaa aaaaa 1675

```

<210> 396

<211> 559

<212> PRT

<213> Homo sapiens

<400> 396

```

Gly Ser Pro Ser Ser Gly Tyr Pro Ala Leu His Arg Val Ala Met Met
                5                      10                      15

```

```

Gly His Arg Pro Val Leu Val Leu Ser Gln Asn Thr Lys Arg Glu Ser
                20                      25                      30

```

```

Gly Arg Lys Val Gln Ser Gly Asn Ile Asn Ala Ala Lys Thr Ile Ala
                35                      40                      45

```

```

Asp Ile Ile Arg Thr Cys Leu Gly Pro Lys Ser Met Met Lys Met Leu
                50                      55                      60

```

```

Leu Asp Pro Met Gly Gly Ile Val Met Thr Asn Asp Gly Asn Ala Ile
                65                      70                      75                      80

```

```

Leu Arg Glu Ile Gln Val Gln His Pro Ala Ala Lys Ser Met Ile Glu
                85                      90                      95

```

```

Ile Ser Arg Thr Gln Asp Glu Glu Val Gly Asp Gly Thr Thr Ser Val
                100                      105                      110

```

```

Ile Ile Leu Ala Gly Glu Met Leu Ser Val Ala Glu His Phe Leu Glu
                115                      120                      125

```

```

Gln Gln Met His Pro Thr Val Val Ile Ser Ala Tyr Arg Lys Ala Leu
                130                      135                      140

```

```

Asp Asp Met Ile Ser Thr Leu Lys Lys Ile Ser Ile Pro Val Asp Ile
                145                      150                      155                      160

```

```

Ser Asp Ser Asp Met Met Leu Asn Ile Ile Asn Ser Ser Ile Thr Thr
                165                      170                      175

```

```

Lys Ala Ile Ser Arg Trp Ser Ser Leu Ala Cys Asn Ile Ala Leu Asp
                180                      185                      190

```

```

Ala Val Lys Met Val Gln Phe Glu Glu Asn Gly Arg Lys Glu Ile Asp
                195                      200                      205

```

```

Ile Lys Lys Tyr Ala Arg Val Glu Lys Ile Pro Gly Gly Ile Ile Glu
                210                      215                      220

```

Asp Ser Cys Val Leu Arg Gly Val Met Ile Asn Lys Asp Val Thr His
 225 230 235 240
 Pro Arg Met Arg Arg Tyr Ile Lys Asn Pro Arg Ile Val Leu Leu Asp
 245 250 255
 Ser Ser Leu Glu Tyr Lys Lys Gly Glu Ser Gln Thr Asp Ile Glu Ile
 260 265 270
 Thr Arg Glu Glu Asp Phe Thr Arg Ile Leu Gln Met Glu Glu Glu Tyr
 275 280 285
 Ile Gln Gln Leu Cys Glu Asp Ile Ile Gln Leu Lys Pro Asp Val Val
 290 295 300
 Ile Thr Glu Lys Gly Ile Ser Asp Leu Ala Gln His Tyr Leu Met Arg
 305 310 315 320
 Ala Asn Ile Thr Ala Ile Arg Arg Val Arg Lys Thr Asp Asn Asn Arg
 325 330 335
 Ile Ala Arg Ala Cys Gly Ala Arg Ile Val Ser Arg Pro Glu Glu Leu
 340 345 350
 Arg Glu Asp Asp Val Gly Thr Gly Ala Gly Leu Leu Glu Ile Lys Lys
 355 360 365
 Ile Gly Asp Glu Tyr Phe Thr Phe Ile Thr Asp Cys Lys Asp Pro Lys
 370 375 380
 Ala Cys Thr Ile Leu Leu Arg Gly Ala Ser Lys Glu Ile Leu Ser Glu
 385 390 395 400
 Val Glu Arg Asn Leu Gln Asp Ala Met Gln Val Cys Arg Asn Val Leu
 405 410 415
 Leu Asp Pro Gln Leu Val Pro Gly Gly Gly Ala Ser Glu Met Ala Val
 420 425 430
 Ala His Ala Leu Thr Glu Lys Ser Lys Ala Met Thr Gly Val Glu Gln
 435 440 445
 Trp Pro Tyr Arg Ala Val Ala Gln Ala Leu Glu Val Ile Pro Arg Thr
 450 455 460
 Leu Ile Gln Asn Cys Gly Ala Ser Thr Ile Arg Leu Leu Thr Ser Leu
 465 470 475 480
 Arg Ala Lys His Thr Gln Glu Asn Cys Glu Thr Trp Gly Val Asn Gly
 485 490 495
 Glu Thr Gly Thr Leu Val Asp Met Lys Glu Leu Gly Ile Trp Glu Pro
 500 505 510
 Leu Ala Val Lys Leu Gln Thr Tyr Lys Thr Ala Val Glu Thr Ala Val
 515 520 525

Leu Leu Leu Arg Ile Asp Asp Ile Val Ser Gly His Lys Lys Lys Gly
 530 535 540

Asp Asp Gln Ser Arg Gln Gly Gly Ala Pro Asp Ala Gly Gln Glu
 545 550 555

<210> 397

<211> 307

<212> PRT

<213> Homo sapiens

<400> 397

Arg Glu Ser Arg Ser Arg Ala Met Glu Glu Glu Ala Ser Ser Pro Gly
 5 10 15

Leu Gly Cys Ser Lys Pro His Leu Glu Lys Leu Thr Leu Gly Ile Thr
 20 25 30

Arg Ile Leu Glu Ser Ser Pro Gly Val Thr Glu Val Thr Ile Ile Glu
 35 40 45

Lys Pro Pro Ala Glu Arg His Met Ile Ser Ser Trp Glu Gln Lys Asn
 50 55 60

Asn Cys Val Met Pro Glu Asp Val Lys Asn Phe Tyr Leu Met Thr Asn
 65 70 75 80

Gly Phe His Met Thr Trp Ser Val Lys Leu Asp Glu His Ile Ile Pro
 85 90 95

Leu Gly Ser Met Ala Ile Asn Ser Ile Ser Lys Leu Thr Gln Leu Thr
 100 105 110

Gln Ser Ser Met Tyr Ser Leu Pro Asn Ala Pro Thr Leu Ala Asp Leu
 115 120 125

Glu Asp Asp Thr His Glu Ala Ser Asp Asp Gln Pro Glu Lys Pro His
 130 135 140

Phe Asp Ser Arg Ser Val Ile Phe Glu Leu Asp Ser Cys Asn Gly Ser
 145 150 155 160

Gly Lys Val Cys Leu Val Tyr Lys Ser Gly Lys Pro Ala Leu Ala Glu
 165 170 175

Asp Thr Glu Ile Trp Phe Leu Asp Arg Ala Leu Tyr Trp His Phe Leu
 180 185 190

Thr Asp Thr Phe Thr Ala Tyr Tyr Arg Leu Leu Ile Thr His Leu Gly
 195 200 205

Leu Pro Gln Trp Gln Tyr Ala Phe Thr Ser Tyr Gly Ile Ser Pro Gln
 210 215 220

Ala Lys Gln Trp Phe Ser Met Tyr Lys Pro Ile Thr Tyr Asn Thr Asn
 225 230 235 240

Leu Leu Thr Glu Glu Thr Asp Ser Phe Val Asn Lys Leu Asp Pro Ser
245 250 255

Lys Val Phe Lys Ser Lys Asn Lys Ile Val Ile Pro Lys Lys Lys Gly
260 265 270

Pro Val Gln Pro Ala Gly Gly Gln Lys Gly Pro Ser Gly Pro Ser Gly
275 280 285

Pro Ser Thr Ser Ser Thr Ser Lys Ser Ser Ser Gly Ser Gly Asn Pro
290 295 300

Thr Arg Lys
305

```
<210> 398
<211> 416
<212> DNA
<213> Homo sapiens
```

```

4a00> 398
cgaattctgcg acgaggattg cctatctcca gtgcaacaac catcaagtgt gctgaaagtc 60
ctcagccggtg tctgcagca cgtggaaagaa gggctcagg tccaagttct ataaagcaacg 120
ccgaacttgcg ggggctatgt cccagatgcc ccccgaaagg tgaaggctct cttgctccaac 180
ccagcaaggaa ggaaagaagt gaatgtgctc tcatttcac tagcatagca gaagaatgtg 240
agcgtctctt tcccggtgta gtgtgtgaaa gctgaaatgc gcgagctgct acagctatgg 300
aagaaaagaa cgggaagtgc atcatcttca cgaactctgt cgaagcaactg gagggcccag 360
tgtctccatg tctgcttcga gaqaaagcgc accctctagt ccaacgaatg gaagaag 416

```

```
<210> 399
<211> 259
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 91, 107, 145, 155, 207, 215, 228, 232, 233, 234, 244
<223> n = A.T.C or G
```

[illegible]

```
<210> 400
<211> 410
<212> DNA
<213> Homo sapiens
```

```
<400> 400
ggcacgaggg gagagcggac ccagagagagc cctgagcagc ccacccgccc ccgcccgcct 60
agttaccatc acacccccgg aggagccgca gctgccgcgc ccggcccccgc tcaccatcac 120
cqaacccatc acaacgcaag ccagagaccga gacgccgcgc gccgccccccc ccgcgcgcgc 180
```

```

ccgccctcag cgccgcccac accaagcccc gcactacggg cagcgccgca gggagcgggtg 240
gcccgggcgg cctcacatcg gccgcgcctg ccggcgggga caagaaggtc atcgcaacga 300
aggttttggg aacagtaaaa tggttcaatg taaggaaagg atatgggttc atcaacagga 360
atgacaccaa ggaagatgta ttgtacacc agactgccat aaagaagaat 410

```

```

<210> 401
<211> 433
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 3
<223> n = A,T,C or G

```

```

<400> 401
ggnacgagga atcatggcgg ctgcgctgtt cgtgctgctg ggattcggcg tgctggggcac 60
ccacggagcc tccggggctg ccggcacagt ctctactacc gtagaagacc ttgggtccaa 120
gatactctcc acctgtctct tgaatgacag cgccacagag gtcacagggc accgctggct 180
gaaggggggg gtggtgctga aggagcagcg gctgcccgcc cagaaaacgg agttcaagggt 240
ggactccgac gaccagtggt gagagtactc ctgcgtcttc ctccccagag ccatggggcac 300
ggccaacatc cagctccacg ggccctccag agtgaaggcc gtgaagtctg cagaacacat 360
caacgagggg gagacggcca tgetggtctg caagtacagag tccgtgccac ctgtcactga 420
ctgggctctg tac 433

```

```

<210> 402
<211> 434
<212> DNA
<213> Homo sapiens

```

```

<400> 402
ggcacgagcg tcggactgag caggactttc cttatccag ttgattgtgc agaatacact 60
gcctgtcgct tgtctcttat tcaccatggc ttcttctgat atccagggtg aagaactgga 120
gaagcgtgcc tcaggccagg cttttgagct gattctcagc cctcggtcaa aaggatctgt 180
tcagaaatcc cccctttccc ctccaaagaa gaaggatctt tccctggagg aaattcagaa 240
gaaattagaa gctgcagaag aaagacgcaa gtcccatgaa gctgaggctc tgaagcagct 300
ggctgagaaa cgagagcacg agaaaagaag gcttcagaag gcaatagaa agaacacaaa 360
cttcagttaa atggcagaag agaaactgac ccacaaaatg gaagctaata aagagaaccg 420
agaggcacia atgg 434

```

```

<210> 403
<211> 435
<212> DNA
<213> Homo sapiens

```

```

<400> 403
ggcacgagga actgctgttg ccattcaaac cattgaggag catcctgcac cttttgactg 60
gagctctttt aagccaatgg gatttgaagt atcatttctg aagtttctgt aggagtctgc 120
agtgaagcag aagaaaaata ctgacaaaaga ccactcgaat actggaaaca aaaaaggatc 180
ccattcaaat tcagaaaaaa atattgataa gactgctgtg actagtggaa atcatgtatg 240
tccttgtaaa gaaagcgaaa cgtttgtaca gtttgccaat ccacacagc ttcagtgcag 300
tgataatgta aaaaattggt ttgacaagaa tcttaaagat tgcactgagc ttgtctttaa 360
gcaacttcag gaaatgaacc ctaccgtcac tctgaaaaaa cttgaagtac attcaaatga 420
tccagatatg tctgt 435

```

```

<210> 404
<211> 416
<212> DNA

```

<213> Homo sapiens

<400> 404

```

aaagaattcg gcacgaggcg ccgctccgcg acgaccaccg ccgctcctcg cctgcagcc 60
accgccaccg cctgtgtcgc cggccgctcg ggacgggctg tatgattagg ccacaatctt 120
caatgagtaa acatatctct caattctgtg gtgttcttgg tcacacattt atggagtttc 180
tgaaggcgag ttgagattac tgccaggcac agcacgacct ctatgcagac aagtgaactg 240
tagaaactga ttactgtctc accaagaagc ccccataaga gtggttatcc tggacacaga 300
agtgttgatg tgaatccac agagcatttt acaagagttc tgacctggat ggggtaaacc 360
tcagtgcact tcttttctgt tggcctcagt attactggat tgaagaattg ctgctt 416

```

<210> 405

<211> 435

<212> DNA

<213> Homo sapiens

<400> 405

```

ggcacgaggg gtcggcgagg gtctgtttta agggcccgcg cgttgccgcc cctcggccc 60
gccatgtcgc tatccgtgcc gctgtgtcgc ggccctcctg gcttgccgct cgccgagcct 120
ccgctctact tcaaggagca gtttctggac ggagacgggt ggacttcccg ctggatcgaa 180
tccaaacaca agtcagattt tggcaaatc gtctcagatt ccggcaagtt ctacggtgac 240
gaggagaag ataaaggttt gcagacaagc caggatgcac gcttttatgc tctgtcggcc 300
agtttcgagc ctttcagcaa caaaggccag acgctggtgg tgcagttcac ggtgaaacat 360
gagcagaaca tcgactgtgg gggcggttat gtgaagctgt ttccataatg tttggaccag 420
acagacatgc acgga 435

```

<210> 406

<211> 424

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 402, 414

<223> n = A,T,C or G

<400> 406

```

gccccaccac actccacctt actaccagac aaccttagcc aaaccattta cccaaataaa 60
gtataggcga tagaaattga aacctggcgc aatagatatata gtaccgcaag ggaagatga 120
aaaattataa ccaagcataa tatagcaagg actaaccctt ataccctctg cataatgaat 180
taactagaaa taactttgca aggagagcca aagctaagac ccccgaaacc agacgagcta 240
cctaagaaca gctaaaagag cacacccgtc tatgtagcaa aatagtggga agatttatag 300
gtagaggcga caaacctacc gagcctgggt atagctggtt gtccaagata gaattcttag 360
tcaactttta atttgcaccac agaaccctct aaatccctt gnaaatttaa ctgntagttc 420
aaag 424

```

<210> 407

<211> 423

<212> DNA

<213> Homo sapiens

<400> 407

```

gtctctaccg gcgcacgtgg tgccgcgcgt gctgcctccc gctgcgctcg aaccagtgct 60
ctgcagccat ggctcccgcc cagctgcgct tatttagtgt ctctgacaaa accggccttg 120
tggaatttgc aagaaacctg accgctcttg gtttgaatct ggctgcgtcc ggagggactg 180
caaaagctct cagggatgct ggtctggcag tcagagatgt ctctgagttg acgggatttc 240
ctgaaatggt ggggggacgt gtgaaaactt tgcacctctg agtccatgct ggaatcctag 300
ctcgtaatat tccagaagat aatgctgaca tgccacagact tgatttcaat ctataagag 360

```

ttgttgccctg caatctctat ccccttgtaa agacagtggc ttctccaggt gtaagtgttg 420
agg 423

<210> 408
<211> 424
<212> DNA
<213> Homo sapiens

<400> 408
gaaaaaaaat agcttactga attctataag atgtgtggga atctcaccta tcaaaaaatag 60
gtaaaaaagag cctccaaaac tgccttgatt ttattcaacct attcttttag gccaggaact 120
aattttacct tcaactatcct gttccctctt gctatcttgt ggagctctta aagacaaagg 180
tataaagagc ttttggtagg tgaattaata atcaactaga tggcatttcc aaatgggatt 240
gcacatactg tggggcaagt cccaagtga cttcaaatg agacgtttat ttgagtaata 300
cttcagatt aacaataatc ataatagcag ttaccacttc ctgagtaact tctatatgcc 360
atgtatttag cttgctcact tctttatgtg gattcttatt taattttaat accaagatga 420
ggtg 424

<210> 409
<211> 398
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> 279, 304, 315, 319, 343, 352, 355, 356, 361, 381
<223> n = A,T,C or G

<400> 409
gtcgcactct tagcttgtcg gggacggtaa cggggaccgc gtgtctgtct ctgtgcctt 60
cgctctctaa tccctagcca ctatgcgtga gtgcacttcc atccacgttg gccaggcttg 120
tgtccagatt ggcaatgcct gctgggagct ctactgcctg gaacacggca tccagccga 180
tggccagatg ccaagtga agaccattgg gggaggagat gactccttca acaccttctt 240
cagtgaagag ggcgttggca agcactgtcc cgggctgng tttgtagact tggaaacccac 300
agtnattgat gaagntcgna ctggcaccta cccgcaggtc ttncaccctg ancanntcat 360
nacaggcaag gaagatgctg ncaataact atgccga 398

<210> 410
<211> 423
<212> DNA
<213> Homo sapiens

<400> 410
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gtagcgccag tagcacggag gaaaaggcag tgacgacogt gctctggggc tgcgagctca 180
gtcaggagag gcggacttgg accttcagac cccagctgga ggggaagcag agctgcagcc 240
tgttgcctca tacgatttgc ttgggggaga aagccaaaga ggagatgcac cgcgtggaga 300
tctgcccccc agcaaacccag gaggacaaga agatgcagcc ggtcaccatt gctcactcc 360
aggcctcagt cctccccatg gtctccatgg taggagtgcg gctttctccc ccagttaact 420
tcc 423

<210> 411
<211> 424
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
 <222> 370
 <223> n = A,T,C or G

```
<400> 411
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ggaccggcg aacgcagagg ttgattcttc accacactga aaccattagg aaaaatcctt 120
gtggttaaca gcagaggttt cagagtgtaa cctgtactcg ggcctagaaa ttatttaaaa 180
tgccgactga tacgtctcaa ggtgaactcg tccatctcaa ggcactccca ctattatgag 240
gagctcagct gatccacggt gacaagttag gtgagaaggt agaagatagc accatgcgga 300
ttcgtcgaac tgtgaattct acccgggaaa ctctcccaa aagcaagctt gctgaagggg 360
aggagaagan gccagaacca gacataagtt cagaggaatc tgtctccact gtagaagaac 420
aaga 424
```

<210> 412
 <211> 430
 <212> DNA
 <213> Homo sapiens

```
<400> 412
ggcacgaggg gaagccggcg ccagttcgcg gggctccggg ccgccactca gagctatgag 60
ctaccgcccg cccctcccg atgtggaggg tatgacctcc ctcaaggttg acaacctgac 120
ctaccgccac tcgcccgcga cgtcgaggcg cgtcttcgag aagtacgggc gcgtcggcga 180
cgtgtacatc ccgcgggatc gctacaccaa ggagtcccg ggtctcgctt tcgttcgctt 240
tcacgacaag cgcgacgctg aggcagctat ggatgccatg gacggggcgc tgctggacgg 300
ccgcgagctg cgggtgcaaa tggcgcgcta cggccgcccc ccggaactac accacagccg 360
ccggggacgc ccaccccgca ggtacggggg cggtggtctac ggacgcggga gccgcagccc 420
taggcggcgt 430
```

<210> 413
 <211> 429
 <212> DNA
 <213> Homo sapiens

```
<400> 413
ggcacgagggt cggcccgccc atcttgtggg aagagctgaa gcaggcgctc ttggctcggc 60
gcggcccgct gcaatccgtg gaggaacgcg gcgcccagcc accatcatgc ctgggcactt 120
acaggaagcg ttccgctcgc tggtcaccaa ccgattcgac cagttatttg acgacgaata 180
ggacccttcc gaggtgctga aggcagcaga gaacaagaaa aagaagaccg gcggggcgcg 240
cgttgggggc cctggggcca agagcgcagc tcaggcccgcg gccagacca actccaacgc 300
ggcaggcaaa cagctgcgca aggagtccca gaaagaccgc aagaaccgcc tgccccccag 360
cgttgcgctg gttgacaaga aagaggagac gcagccgccc gtggcgctta agaaagaagg 420
aataagacg 429
```

<210> 414
 <211> 429
 <212> DNA
 <213> Homo sapiens

```
<400> 414
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caggtgaattg gtaatcggtt acagttaaaa gaagaggag aaccaatgga tacttccagt 120
gtaactcaca cagaacacta caagacactg atagaggcag gcctcccaaa gaaggtgcca 180
gaaagacttg atgaattatt tcagacagga ttggtagctt atgtcgatct tgatgaaaga 240
gcaattgatg ctctcaggga atttaataaa gaaggagctc tgtctgtact acagcagttc 300
aaggaaagtg acttatcaca tgttcagaac aaaagtgc attttatgtg agttatgaag 360
acctacagcg agagagagaa acaggggagc aaggtgcaag agtccacaaa gggacctgat 420
gaagcgaag 429
```

<210> 415
 <211> 398
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 380, 394
 <223> n = A,T,C or G

```
<400> 415
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cgctctcgcc gaggaacaag tcggtcagga agcccgccgc caacagccat ggcttttaag 120
gataccggaa aaacaccggt ggagccggag gtggcaattc accgaattcg aatcaccccta 180
acaagccgca acgtaaaatc cttggaaaag gtgtgtgctg acttgataag aggcgcacaaa 240
gaaaagaatc tcaaagtact ttgagaatca ctacaagaaa aactccttgt ggtgaaggtt 300
ctaagacgtg ggatcgtttc cagatgagaa ttcaacaagc actcattgac ttgcacagtc 360
cttctgagat tgttaaagcan attacttcca tcantatt 398
```

<210> 416
 <211> 269
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 180, 202, 206, 214, 224, 235, 240, 241, 245, 247, 250, 251,
 252, 257, 267
 <223> n = A,T,C or G

```
<400> 416
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tccccggcgg gcagccccag gctgggtcccc gcctcccgctc tccccaccgg cggggaaagc 120
agctggtgtg ggaggaaaag ctccatcccc cgccccctct ctcccgtgtg ttgctggcan 180
gatcttttgg cagtctctgtg gnetcnetcc ccgncgggat cctnctgacc ctganattcn 240
nggtntnacn nnccgtncac gccttgntt 269
```

<210> 417
 <211> 408
 <212> DNA
 <213> Homo sapiens

```
<400> 417
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ggagctctctt gcaggataaa cagcagctag aggagctggc acggcaggcc gtggaccggg 120
ccctggctga gggagtattg ctgaggacct cacaggagcc cacttcctcg gagtggtga 180
gctatgcccc attcagcttc ttccccctac tgggtccccag tgccctgctg gagcaagcct 240
atgctgtgca gatggacttc aacctgctag tggatgctgt cagccagaac gctgccttcc 300
tgagacaaac tctttccagc accatcaaac aggatgactt taccgctcgt ctctttgaca 360
tcacaaagca agtctaaaaa gagggcattg cccagactgt gttccttg 408
```

<210> 418
 <211> 402
 <212> DNA
 <213> Homo sapiens

<400> 418

```

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gctgtcctcg cgcttccgcc ggggtggacat cgacgaattt gacgagaaca aatttgtgga 180
cgagcaggag gagggcgccg cggcgccggc ggagccaggg ccggaccgga gcgaggtgga 240
cgggctcctg cggcaagggg acatgcttcg ggcattccat gcagccttgc ggaaactctc 300
cgtcaacacc aagaatcaag ctgtgaagga gcgagcccg ggcgtggtgc tgaagtgct 360
cacaaccttc aagagcagtg agattgagca ggctgtgcag tc 402

```

```

<210> 419
<211> 406
<212> DNA
<213> Homo sapiens

```

```

<400> 419
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gctgcgagag tctagggcgg tgcggcgccct cctgcctcct cctcctcctg cggtcgcgcc 120
ccgcccggcct ccgcggtgcc tgcccttcgct ctacgggttga ggagctcaag cttgggaaaa 180
tggtgtgcac tcctgttatc gtcattccag ttctgctctg gatctacaaa aaattcctgg 240
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attcaaaaga atccaatgat ccaaacaaaa gggcaaaagt aaaaactttt aaaggggtgc 360
aagaacattg aaatgggaat taccacaacca aaaaagggaa cccaac 406

```

```

<210> 420
<211> 371
<212> DNA
<213> Homo sapiens

```

```

<400> 420
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gatgaaaaat gaaataaaaa tcaggtacaa ctccaaaagg agacattgga gaagaaccaa 180
gctgggtcta taaggaattg cacatgagat ggcacacata tttatgctgt ctgaagggtca 240
cgatcatggt accatatcaa gctgaaaatg tcaccactat ctggagattt cgacgtgttt 300
tctctctcga atctgttatg aacacgttgg ttggctggat tcagtaataa atatgtaagg 360
cctttctttt t 371

```

```

<210> 421
<211> 51
<212> PRT
<213> Homo sapiens

```

```

<400> 421
Met Ser Ser His Lys Thr Phe Arg Ile Lys Arg Phe Leu Ala Lys Lys
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Gln Lys Gln Asn Arg Pro Ile Pro Gln Trp Ile Arg Met Lys Thr Gly
          20                      25                      30

Asn Lys Ile Arg Tyr Asn Ser Lys Arg Arg His Trp Arg Arg Thr Lys
          35                      40                      45

Leu Gly Leu
          50

```

```

<210> 422

```


<211> 12308

<212> DNA

<213> Homo sapiens

<400> 422

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ccatactgtg	tcagattata	gatcactaaa	gtggttctta	gcagaaggtg	gaggtgtctt	180
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tcctgtccag	tctgtctatc	aaactataga	gaagaagatc	ttattctgca	atgtagacaa	480
tgtgatagat	ggatgcctgc	agtttgtcag	aacttaataa	ctgagggaag	agtggaataat	540
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 1425 1430 1435 1440
 Lys Leu Arg Glu Ile Ile Leu Gln Gln Gln Gln Lys Lys Ile Ala
 1445 1450 1455
 Gly Arg Gln Glu Lys Gly Ser Gln Asp Ser Pro Ala Val Pro His Pro
 1460 1465 1470
 Gly Pro Leu Gln His Trp Gln Pro Glu Asn Val Asn Gln Ala Phe Thr
 1475 1480 1485
 Arg Pro Pro Pro Pro Tyr Pro Gly Asn Ile Arg Ser Pro Val Ala Pro
 1490 1495 1500
 Pro Leu Gly Pro Arg Tyr Ala Val Phe Pro Lys Asp Gln Arg Gly Pro
 1505 1510 1515 1520
 Tyr Pro Pro Asp Val Ala Ser Met Gly Met Arg Pro His Gly Phe Arg
 1525 1530 1535
 Phe Gly Phe Pro Gly Gly Ser His Gly Thr Met Pro Ser Gln Glu Arg
 1540 1545 1550
 Phe Leu Val Pro Pro Gln Gln Ile Gln Gly Ser Gly Val Ser Pro Gln
 1555 1560 1565
 Leu Arg Arg Ser Val Ser Val Asp Met Pro Arg Pro Leu Asn Asn Ser
 1570 1575 1580
 Gln Met Asn Asn Pro Val Gly Leu Pro Gln His Phe Ser Pro Gln Ser
 1585 1590 1595 1600
 Leu Pro Val Gln Gln His Asn Ile Leu Gly Gln Ala Tyr Ile Glu Leu
 1605 1610 1615
 Arg His Arg Ala Pro Asp Gly Arg Gln Arg Leu Pro Phe Ser Ala Pro
 1620 1625 1630
 Pro Gly Ser Val Val Glu Ala Ser Ser Asn Leu Arg His Gly Asn Phe
 1635 1640 1645
 Ile Pro Arg Pro Asp Phe Pro Gly Pro Arg His Thr Asp Pro Met Arg
 1650 1655 1660

Arg Pro Pro Gln Gly Leu Pro Asn Gln Leu Pro Val His Pro Asp Leu
 1665 1670 1675 1680
 Glu Gln Val Pro Pro Ser Gln Gln Glu Gln Gly His Ser Val His Ser
 1685 1690 1695
 Ser Ser Met Val Met Arg Thr Leu Asn His Pro Leu Gly Gly Glu Phe
 1700 1705 1710
 Ser Glu Ala Pro Leu Ser Thr Ser Val Pro Ser Glu Thr Thr Ser Asp
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 Asn Leu Gln Ile Thr Thr Gln Pro Ser Asp Gly Leu Glu Glu Lys Leu
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 Asp Ser Asp Asp Pro Ser Val Lys Glu Leu Asp Val Lys Asp Leu Glu
 1745 1750 1755 1760
 Gly Val Glu Val Lys Asp Leu Asp Asp Glu Asp Leu Glu Asn Leu Asn
 1765 1770 1775
 Leu Asp Thr Glu Asp Gly Lys Val Val Glu Leu Asp Thr Leu Asp Asn
 1780 1785 1790
 Leu Glu Thr Asn Asp Pro Asn Leu Asp Asp Leu Leu Arg Ser Gly Glu
 1795 1800 1805
 Phe Asp Ile Ile Ala Tyr Thr Asp Pro Glu Leu Asp Met Gly Asp Lys
 1810 1815 1820
 Lys Ser Met Phe Asn Glu Glu Leu Asp Leu Pro Ile Asp Asp Lys Leu
 1825 1830 1835 1840
 Asp Asn Gln Cys Val Ser Val Glu Pro Lys Lys Lys Glu Gln Glu Asn
 1845 1850 1855
 Lys Thr Leu Val Leu Ser Asp Lys His Ser Pro Gln Lys Lys Ser Thr
 1860 1865 1870
 Val Thr Asn Glu Val Lys Thr Glu Val Leu Ser Pro Asn Ser Lys Val
 1875 1880 1885
 Glu Ser Lys Cys Glu Thr Glu Lys Asn Asp Glu Asn Lys Asp Asn Val
 1890 1895 1900
 Asp Thr Pro Cys Ser Gln Ala Ser Ala His Ser Asp Leu Asn Asp Gly
 1905 1910 1915 1920
 Glu Lys Thr Ser Leu His Pro Cys Asp Pro Asp Leu Phe Glu Lys Arg
 1925 1930 1935
 Thr Asn Arg Glu Thr Ala Gly Pro Ser Ala Asn Val Ile Gln Ala Ser
 1940 1945 1950
 Thr Gln Leu Pro Ala Gln Asp Val Ile Asn Ser Cys Gly Ile Thr Gly
 1955 1960 1965
 Ser Thr Pro Val Leu Ser Ser Leu Leu Ala Asn Glu Lys Ser Asp Asn

1970				1975				1980			
Ser Asp Ile Arg	Pro	Ser Gly	Ser Pro Pro	Pro Pro Thr	Leu Pro Ala						
1985		1990		1995		2000					
Ser Pro Ser Asn	His Val	Ser Ser Leu	Pro Pro Phe	Ile Ala Pro	Pro						
	2005		2010		2015						
Gly Arg Val Leu	Asp Asn Ala	Met Asn Ser	Asn Val Thr	Val Val Ser							
	2020		2025		2030						
Arg Val Asn His	Val Phe Ser	Gln Gly Val	Gln Val Asn	Pro Gly Leu							
	2035		2040		2045						
Ile Pro Gly Gln	Ser Thr Val	Asn His Ser	Leu Gly Thr	Gly Lys Pro							
	2050		2055		2060						
Ala Thr Gln Thr	Gly Pro Gln	Thr Ser Gln	Ser Gly Thr	Ser Ser Met							
	2065		2070		2075		2080				
Ser Gly Pro Gln	Gln Leu Met	Ile Pro Gln	Thr Leu Ala	Gln Gln Asn							
	2085		2090		2095						
Arg Glu Arg Pro	Leu Leu Leu	Glu Glu Gln	Pro Leu Leu	Leu Gln Asp							
	2100		2105		2110						
Leu Leu Asp Gln	Glu Arg Gln	Glu Gln Gln	Gln Gln Arg	Gln Met Gln							
	2115		2120		2125						
Ala Met Ile Arg	Gln Arg Ser	Glu Pro Phe	Phe Pro Asn	Ile Asp Phe							
	2130		2135		2140						
Asp Ala Ile Thr	Asp Pro Ile	Met Lys Ala	Lys Met Val	Ala Leu Lys							
	2145		2150		2155		2160				
Gly Ile Asn Lys	Val Met Ala	Gln Asn Asn	Leu Gly Met	Pro Pro Met							
	2165		2170		2175						
Val Met Ser Arg	Phe Pro Phe	Met Gly Gln	Val Val Thr	Gly Thr Gln							
	2180		2185		2190						
Asn Ser Glu Gly	Gln Asn Leu	Gly Pro Gln	Ala Ile Pro	Gln Asp Gly							
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Ser Ile Thr His	Gln Ile Ser	Arg Pro Asn	Pro Pro Asn	Phe Gly Pro							
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Gly Phe Val Asn	Asp Ser Gln	Arg Lys Gln	Tyr Glu Glu	Trp Leu Gln							
	2225		2230		2235		2240				
Glu Thr Gln Gln	Leu Leu Gln	Met Gln Gln	Lys Tyr Leu	Glu Glu Gln							
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Ile Gly Ala His	Arg Lys Ser	Lys Lys Ala	Leu Ser Ala	Lys Gln Arg							
	2260		2265		2270						
Thr Ala Lys Lys	Ala Gly Arg	Glu Phe Pro	Glu Glu Asp	Ala Glu Gln							
	2275		2280		2285						

Leu Lys His Val Thr Glu Gln Gln Ser Met Val Gln Lys Gln Leu Glu
 2290 2295 2300
 Gln Ile Arg Lys Gln Gln Lys Glu His Ala Glu Leu Ile Glu Asp Tyr
 2305 2310 2315 2320
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 Pro Ser Val Gln Pro Gln Pro Pro Leu Ile Pro Gly Ala Thr Pro Pro
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 Thr Met Ser Gln Pro Thr Phe Pro Met Val Pro Gln Gln Leu Gln His
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 Gln Gln His Thr Thr Val Ile Ser Gly His Thr Ser Pro Val Arg Met
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 Pro Ser Leu Pro Gly Trp Gln Pro Asn Ser Ala Pro Ala His Leu Pro
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 Leu Asn Pro Pro Arg Ile Gln Pro Pro Ile Ala Gln Leu Pro Ile Lys
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 Gly Pro Pro Pro Arg Val Glu Phe Asp Asn Asn Pro Phe Ser Glu
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 Ser Phe Gln Glu Arg Glu Arg Lys Glu Arg Leu Arg Glu Gln Gln Glu
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 2485 2490 2495
 Ser Ser Ser Arg Thr Ser Val Ser Gln Ile Pro Phe Tyr Ser Ser Asp
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 2530 2535 2540
 Gln Gly Ser Ile Asn Ser Pro Ser Thr Gln Thr Phe Met Gln Thr Asn
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 Glu Arg Arg Gln Val Gly Pro Pro Ser Phe Val Pro Asp Ser Pro Ser
 2565 2570 2575
 Ile Pro Val Gly Ser Pro Asn Phe Ser Ser Val Lys Gln Gly His Gly
 2580 2585 2590

Asn Leu Ser Gly Thr Ser Phe Gln Gln Ser Pro Val Arg Pro Ser Phe
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 Thr Pro Ala Leu Pro Ala Ala Pro Pro Val Ala Asn Ser Ser Leu Pro
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 Cys Gly Gln Asp Ser Thr Ile Thr His Gly His Ser Tyr Pro Gly Ser
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 Thr Gln Ser Leu Ile Gln Leu Tyr Ser Asp Ile Ile Pro Glu Glu Lys
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 Gly Lys Lys Lys Arg Thr Arg Lys Lys Lys Arg Asp Asp Ala Glu
 2660 2665 2670
 Ser Thr Lys Ala Pro Ser Thr Pro His Ser Asp Ile Thr Ala Pro Pro
 2675 2680 2685
 Thr Pro Gly Ile Ser Glu Thr Thr Ser Thr Pro Ala Val Ser Thr Pro
 2690 2695 2700
 Ser Glu Leu Pro Gln Gln Ala Asp Gln Glu Ser Val Glu Pro Val Gly
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 Pro Ser Thr Pro Asn Met Ala Ala Gly Gln Leu Cys Thr Glu Leu Glu
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 Asn Lys Leu Pro Asn Ser Asp Phe Ser Gln Ala Thr Pro Asn Gln Gln
 2740 2745 2750
 Thr Tyr Ala Asn Ser Glu Val Asp Lys Leu Ser Met Glu Thr Pro Ala
 2755 2760 2765
 Lys Thr Glu Glu Ile Lys Leu Glu Lys Ala Glu Thr Glu Ser Cys Pro
 2770 2775 2780
 Gly Gln Glu Glu Pro Lys Leu Glu Glu Gln Asn Gly Ser Lys Val Glu
 2785 2790 2795 2800
 Gly Asn Ala Val Ala Cys Pro Val Ser Ser Ala Gln Ser Pro Pro His
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 Ser Ala Gly Ala Pro Ala Ala Lys Gly Asp Ser Gly Asn Glu Leu Leu
 2820 2825 2830
 Lys His Leu Leu Lys Asn Lys Lys Ser Ser Ser Leu Leu Asn Gln Lys
 2835 2840 2845
 Pro Glu Gly Ser Ile Cys Ser Glu Asp Asp Cys Thr Lys Asp Asn Lys
 2850 2855 2860
 Leu Val Glu Lys Gln Asn Pro Ala Glu Gly Leu Gln Thr Leu Gly Ala
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 Gln Met Gln Gly Gly Phe Gly Cys Gly Asn Gln Leu Pro Lys Thr Asp
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 Gly Gly Ser Glu Thr Lys Lys Gln Arg Ser Lys Arg Thr Gln Arg Thr

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Gly	Lys	Ala	Ala	Pro	Arg	Ser	Lys	Lys	Arg	Lys	Lys	Asp	Glu	Glu
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Glu	Lys	Gln	Ala	Met	Tyr	Ser	Ser	Thr	Asp	Thr	Phe	Thr	His	Leu
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Gln	Val	Arg	Gln	Leu	Ser	Leu	Leu	Pro	Leu	Met	Glu	Pro	Ile	Ile
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Val	Asn	Phe	Ala	His	Phe	Leu	Pro	Tyr	Gly	Ser	Gly	Gln	Phe	Asn
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Gly	Asn	Arg	Leu	Leu	Gly	Thr	Phe	Gly	Ser	Ala	Thr	Leu	Glu	Gly
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Ser	Asp	Tyr	Tyr	Ser	Gln	Leu	Ile	Tyr	Lys	Gln	Asn	Asn	Leu	Ser
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Cys	Gln	Lys	Met	Ala	Asn	Gly	Phe	Ala	Thr	Thr	Glu	Glu	Leu	Ala
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Lys	Ala	Gly	Val	Leu	Val	Ser	His	Glu	Val	Thr	Lys	Thr	Leu	Gly
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Lys	Pro	Phe	Gln	Leu	Pro	Phe	Arg	Pro	Gln	Asp	Asp	Leu	Leu	Ala
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Ala	Leu	Ala	Gln	Gly	Pro	Lys	Thr	Val	Asp	Val	Pro	Ala	Ser	Leu
			3075				3080					3085		Pro
Thr	Pro	Pro	His	Asn	Asn	Gln	Glu	Glu	Leu	Arg	Ile	Gln	Asp	His
	3090					3095					3100			Cys
Gly	Asp	Arg	Asp	Thr	Pro	Asp	Ser	Phe	Val	Pro	Ser	Ser	Ser	Pro
	3105					3110					3115			3120
Ser	Val	Val	Gly	Val	Glu	Val	Ser	Arg	Tyr	Pro	Asp	Leu	Ser	Leu
			3125						3130				3135	Val
Lys	Glu	Glu	Pro	Pro	Glu	Pro	Val	Pro	Ser	Pro	Ile	Ile	Pro	Ile
			3140					3145					3150	Leu
Pro	Ser	Thr	Ala	Gly	Lys	Ser	Ser	Glu	Ser	Arg	Arg	Asn	Asp	Ile
			3155					3160				3165		Lys
Thr	Glu	Pro	Gly	Thr	Leu	Tyr	Phe	Ala	Ser	Pro	Phe	Gly	Pro	Ser
	3170					3175						3180		Pro
Asn	Gly	Pro	Arg	Ser	Gly	Leu	Ile	Ser	Val	Ala	Ile	Thr	Leu	His
	3185					3190					3195			3200
Thr	Ala	Ala	Glu	Asn	Ile	Ser	Ser	Val	Val	Ala	Ala	Phe	Ser	Asp
			3205						3210				3215	Leu

Leu His Val Arg Ile Pro Asn Ser Tyr Glu Val Ser Ser Ala Pro Asp
 3220 3225 3230
 Val Pro Ser Met Gly Leu Val Ser Ser His Arg Ile Asn Pro Gly Leu
 3235 3240 3245
 Glu Tyr Arg Gln His Leu Leu Leu Arg Gly Pro Pro Pro Gly Ser Ala
 3250 3255 3260
 Asn Pro Pro Arg Leu Val Ser Ser Tyr Arg Leu Lys Gln Pro Asn Val
 3265 3270 3275 3280
 Pro Phe Pro Pro Thr Ser Asn Gly Leu Ser Gly Tyr Lys Asp Ser Ser
 3285 3290 3295
 His Gly Ile Ala Glu Ser Ala Ala Leu Arg Pro Gln Trp Cys Cys His
 3300 3305 3310
 Cys Lys Val Val Ile Leu Gly Ser Gly Val Arg Lys Ser Phe Lys Asp
 3315 3320 3325
 Leu Thr Leu Leu Asn Lys Asp Ser Arg Glu Ser Thr Lys Arg Val Glu
 3330 3335 3340
 Lys Asp Ile Val Phe Cys Ser Asn Asn Cys Phe Ile Leu Tyr Ser Ser
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 Pro Gln Ser Pro Met Arg Glu Thr Pro Ser Lys Ala Phe His Gln Tyr
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 Glu Lys Ala Ser Pro Pro Ala Ser Pro Pro Ile Ala Phe Pro Pro Ala
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 Val Lys Leu Lys Pro Arg Leu Arg Ala Val His Gly Gly Phe Glu Asp
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 Cys Arg Pro Leu Asn Lys Lys Trp Arg Gly Met Lys Trp Lys Lys Trp
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 Ser Ile His Ile Val Ile Pro Lys Gly Thr Phe Lys Pro Pro Cys Glu
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 Asp Glu Ile Asp Glu Phe Leu Lys Lys Leu Gly Thr Ser Leu Lys Pro
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 Asp Pro Val Pro Lys Asp Tyr Arg Lys Cys Cys Phe Cys His Glu Glu
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Gly Asp Gly Leu Thr Asp Gly Pro Ala Arg Leu Leu Asn Leu Asp Leu
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 Gly Leu Gln Met Lys Cys Val Phe Cys His Lys Thr Gly Ala Thr Ser
 3570 3575 3580
 Gly Cys His Arg Phe Arg Cys Thr Asn Ile Tyr His Phe Thr Cys Ala
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 Ile Lys Ala Gln Cys Met Phe Phe Lys Asp Lys Thr Met Leu Cys Pro
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 Met His Lys Pro Lys Gly Ile His Glu Gln Glu Leu Ser Tyr Phe Ala
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 Val Phe Arg Arg Val Tyr Val Gln Arg Asp Glu Val Arg Gln Ile Ala
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 Ser Ile Val Gln Arg Gly Glu Arg Asp His Thr Phe Arg Val Gly Ser
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 Leu Ile Phe His Thr Ile Gly Gln Leu Leu Pro Gln Gln Met Gln Ala
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 Phe His Ser Pro Lys Ala Leu Phe Pro Val Gly Tyr Glu Ala Ser Arg
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 Ser Ile Glu Glu Lys Asp Gly Arg Pro Val Phe Val Ile Arg Ile Val
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 Val Trp Asp Lys Ile Leu Glu Pro Val Ala Cys Val Arg Lys Lys Ser
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 Val Glu Ala Cys Glu Asn Tyr Thr Phe Arg Tyr Gly Arg Asn Pro Leu
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 Pro Lys Met Ser Ala His Val Lys Arg Pro His Thr Leu Asn Ser Thr

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 Thr Phe Glu Arg Gly His Lys Ile Ile Ile Ser Ser Ser Arg Arg Ile
 3970 3975 3980
 Gln Lys Gly Glu Glu Leu Cys Tyr Asp Tyr Lys Phe Asp Phe Glu Asp
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<211> 174

<212> PRT

<213> Homo sapiens

<400> 426

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 20 25 30

Val Thr Ala Pro Leu Pro Gln Ala Ala His Cys Val Leu Ala Gln Asp
 35 40 45

Pro Glu Asn Gln Ala Leu Ala Arg Phe Tyr Cys Tyr Thr Glu Arg Thr
 50 55 60

Ile Ala Lys Arg Leu Val Leu Arg Arg Asp Pro Ser Val Lys Arg Thr

65		70		75		80
Leu Cys Arg Gly	Cys Ser Ser Leu Leu Val Pro Gly Leu Thr Cys Thr	85		90		95
His Arg Gln Arg Arg Cys Arg Gly Gln Arg Trp Thr Val Gln Thr Cys		100		105		110
Leu Thr Cys Gln Arg Ser Gln Arg Phe Leu Asn Asp Pro Gly His Leu		115		120		125
Leu Trp Gly Asp Arg Pro Glu Ala Gln Leu Gly Ser Gln Ala Asp Ser		130		135		140
Lys Pro Leu Gln Pro Leu Pro Asn Thr Ala His Ser Ile Ser Asp Arg		145		150		155
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Leu Pro Glu Glu Lys Met Gln Thr Gln Gly Ser Ser Asn Gln		165		170		

<210> 427

<211> 184

<212> PRT

<213> Homo sapiens

<400> 427

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Lys Glu Ala Ala Arg Arg Ser Glu Phe Phe Lys Thr Tyr Ile Cys Leu		35		40		45
Pro Pro Ala Gln Leu Tyr His Trp Val Glu Met Arg Thr Lys Met Arg		50		55		60
Ile Met Gly Phe Arg Gly Thr Val Ile Lys Pro Leu Asn Glu Glu Ala		65		70		75
						80
Ala Ala Glu Leu Gly Ala Glu Leu Leu Gly Glu Ala Thr Ile Phe Ile		85		90		95
Val Gly Gly Gly Cys Leu Val Leu Glu Tyr Trp Arg His Gln Ala Gln		100		105		110
Gln Arg His Lys Glu Glu Glu Gln Arg Ala Ala Trp Asn Ala Leu Arg		115		120		125
Asp Glu Val Gly His Leu Ala Leu Ala Leu Glu Ala Leu Gln Ala Gln		130		135		140
Val Gln Ala Ala Pro Pro Gln Gly Ala Leu Glu Glu Leu Arg Thr Glu		145		150		155
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Leu Gln Glu Val Arg Ala Gln Leu Cys Asn Pro Gly Arg Ser Ala Ser						

186

165

170

175

His Ala Val Pro Ala Ser Lys Lys
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<210> 428
<211> 6476
<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<213> Homo sapiens

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<211> 640

<212> DNA

<213> Homo sapiens

<400> 431

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<210> 432

<211> 2068

<212> DNA

<213> Homo sapiens

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<211> 1723

<212> DNA

<213> Homo sapiens

<400> 433

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<210> 434

<211> 1702

<212> PRT

<213> Homo sapiens

<400> 434

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Pro Tyr Val Gln Asp Ile His Ser Val Gly Ser Leu Cys Lys Leu Tyr
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Phe Ser Asp Ala Val Ser Ala Ala Thr Asp Glu Glu Arg Leu Ile Lys
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Ile His Asp Val Ile Gln Gln Leu Pro Pro Pro His Tyr Arg Thr Leu
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Glu Phe Leu Met Arg His Leu Ser Leu Leu Ala Asp Tyr Cys Ser Ile
          115                     120                     125

```

```

Thr Asn Met His Ala Lys Asn Leu Ala Ile Val Trp Ala Pro Asn Leu
          130                     135                     140

```

```

Leu Arg Ser Lys Gln Ile Glu Ser Ala Cys Phe Ser Gly Thr Ala Ala
          145                     150                     155                     160

```

```

Phe Met Glu Val Arg Ile Gln Ser Val Val Val Glu Phe Ile Leu Asn
          165                     170                     175

```

```

His Val Asp Val Leu Phe Ser Gly Arg Ile Ser Met Ala Met Gln Glu
          180                     185                     190

```

```

Gly Ala Ala Ser Leu Ser Arg Pro Lys Ser Leu Leu Val Ser Ser Pro
          195                     200                     205

```

```

Ser Thr Lys Leu Leu Thr Leu Glu Glu Ala Gln Ala Arg Thr Gln Ala
          210                     215                     220

```

```

Gln Val Asn Ser Pro Ile Val Thr Glu Asn Lys Tyr Ile Glu Val Gly
          225                     230                     235                     240

```

```

Glu Gly Pro Ala Ala Leu Gln Gly Lys Phe His Thr Ile Ile Glu Phe

```

245					250					255					
Pro	Leu	Glu	Arg	Lys	Arg	Pro	Gln	Asn	Lys	Met	Lys	Lys	Ser	Pro	Val
			260					265						270	
Gly	Ser	Trp	Arg	Ser	Phe	Phe	Asn	Leu	Gly	Lys	Ser	Ser	Ser	Val	Ser
			275					280					285		
Lys	Arg	Lys	Leu	Gln	Arg	Asn	Glu	Ser	Glu	Pro	Ser	Glu	Met	Lys	Ala
			290					295				300			
Met	Ala	Leu	Lys	Gly	Gly	Arg	Ala	Glu	Gly	Thr	Leu	Arg	Ser	Ala	Lys
			305				310					315			320
Ser	Glu	Glu	Ser	Leu	Thr	Ser	Leu	His	Ala	Val	Asp	Gly	Asp	Ser	Lys
				325					330					335	
Leu	Phe	Arg	Pro	Arg	Arg	Pro	Arg	Ser	Ser	Ser	Asp	Ala	Leu	Ser	Ala
				340				345					350		
Ser	Phe	Asn	Gly	Glu	Met	Leu	Gly	Asn	Arg	Cys	Asn	Ser	Tyr	Asp	Asn
			355				360					365			
Leu	Pro	His	Asp	Asn	Glu	Ser	Glu	Glu	Gly	Gly	Leu	Leu	His	Ile	
			370				375					380			
Pro	Ala	Leu	Met	Ser	Pro	His	Ser	Ala	Glu	Asp	Val	Asp	Leu	Ser	Pro
							390					395			400
Pro	Asp	Ile	Gly	Val	Ala	Ser	Leu	Asp	Phe	Asp	Pro	Met	Ser	Phe	Gln
				405					410					415	
Cys	Ser	Pro	Pro	Lys	Ala	Glu	Ser	Glu	Cys	Leu	Glu	Ser	Gly	Ala	Ser
			420					425					430		
Phe	Leu	Asp	Ser	Pro	Gly	Tyr	Ser	Lys	Asp	Lys	Pro	Ser	Ala	Asn	Lys
			435				440					445			
Lys	Asp	Ala	Glu	Thr	Gly	Ser	Ser	Gln	Cys	Gln	Thr	Pro	Gly	Ser	Thr
			450				455					460			
Ala	Ser	Ser	Glu	Pro	Val	Ser	Pro	Leu	Gln	Glu	Lys	Leu	Ser	Pro	Phe
							470					475			480
Phe	Thr	Leu	Asp	Leu	Ser	Pro	Thr	Glu	Asp	Lys	Ser	Ser	Lys	Pro	Ser
				485					490					495	
Ser	Phe	Thr	Glu	Lys	Val	Val	Tyr	Ala	Phe	Ser	Pro	Lys	Ile	Gly	Arg
				500				505					510		
Lys	Leu	Ser	Lys	Ser	Pro	Ser	Met	Ser	Ile	Ser	Glu	Pro	Ile	Ser	Val
			515				520					525			
Thr	Leu	Pro	Pro	Arg	Val	Ser	Glu	Val	Ile	Gly	Thr	Val	Ser	Asn	Thr
				530			535					540			
Thr	Ala	Gln	Asn	Ala	Ser	Ser	Ser	Thr	Trp	Asp	Lys	Cys	Val	Glu	Glu
				545			550					555			560

Arg Asp Ala Thr Asn Arg Ser Pro Thr Gln Ile Val Lys Met Lys Thr
 565 570 575
 Asn Glu Thr Val Ala Gln Glu Ala Tyr Glu Ser Glu Val Gln Pro Leu
 580 585 590
 Asp Gln Val Ala Ala Glu Glu Val Glu Leu Pro Gly Lys Glu Asp Gln
 595 600 605
 Ser Val Ser Ser Ser Gln Ser Lys Ala Val Ala Ser Gly Gln Thr Gln
 610 615 620
 Thr Gly Ala Val Thr His Asp Pro Pro Gln Asp Ser Val Pro Val Ser
 625 630 635
 Ser Val Ser Leu Ile Pro Pro Pro Pro Pro Lys Asn Val Ala Arg
 645 650 655
 Met Leu Ala Leu Ala Leu Ala Glu Ser Ala Gln Gln Ala Ser Thr Gln
 660 665 670
 Ser Leu Lys Arg Pro Gly Thr Ser Gln Ala Gly Tyr Thr Asn Tyr Gly
 675 680 685
 Asp Ile Ala Val Ala Thr Thr Glu Asp Asn Leu Ser Ser Ser Tyr Ser
 690 695 700
 Ala Val Ala Leu Asp Lys Ala Tyr Phe Gln Thr Asp Arg Pro Ala Glu
 705 710 715 720
 Gln Phe His Leu Gln Asn Asn Ala Pro Gly Asn Cys Asp His Pro Leu
 725 730 735
 Pro Glu Thr Thr Ala Thr Gly Asp Pro Thr His Ser Asn Thr Thr Glu
 740 745 750
 Ser Gly Glu Gln His His Gln Val Asp Leu Thr Gly Asn Gln Pro His
 755 760 765
 Gln Ala Tyr Leu Ser Gly Asp Pro Glu Lys Ala Arg Ile Thr Ser Val
 770 775 780
 Pro Leu Asp Ser Glu Lys Ser Asp Asp His Val Ser Phe Pro Glu Asp
 785 790 795 800
 Gln Ser Gly Lys Asn Ser Met Pro Thr Val Ser Phe Leu Asp Gln Asp
 805 810 815
 Gln Ser Pro Pro Arg Phe Tyr Ser Gly Asp Gln Pro Pro Ser Tyr Leu
 820 825 830
 Gly Ala Ser Val Asp Lys Leu His His Pro Leu Glu Phe Ala Asp Lys
 835 840 845
 Ser Pro Thr Pro Pro Asn Leu Pro Ser Asp Lys Ile Tyr Pro Pro Ser
 850 855 860

Gly Ser Pro Glu Glu Asn Thr Ser Thr Ala Thr Met Thr Tyr Met Thr
 865 870 875 880
 Thr Thr Pro Ala Thr Ala Gln Met Ser Thr Lys Glu Ala Ser Trp Asp
 885 890 895
 Val Ala Glu Gln Pro Thr Thr Ala Asp Phe Ala Ala Ala Thr Leu Gln
 900 905 910
 Arg Thr His Arg Thr Asn Arg Pro Leu Pro Pro Pro Pro Ser Gln Arg
 915 920 925
 Ser Ala Glu Gln Pro Pro Val Val Gly Gln Val Gln Ala Ala Thr Asn
 930 935 940
 Ile Gly Leu Asn Asn Ser His Lys Val Gln Gly Val Val Pro Val Pro
 945 950 955 960
 Glu Arg Pro Pro Glu Pro Arg Ala Met Asp Asp Pro Ala Ser Ala Phe
 965 970 975
 Ile Ser Asp Ser Gly Ala Ala Ala Gln Cys Pro Met Ala Thr Ala
 980 985 990
 Val Gln Pro Gly Leu Pro Glu Lys Val Arg Asp Gly Ala Arg Val Pro
 995 1000 1005
 Leu Leu His Leu Arg Ala Glu Ser Val Pro Ala His Pro Cys Gly Phe
 1010 1015 1020
 Pro Ala Pro Leu Pro Pro Thr Arg Met Met Glu Ser Lys Met Ile Ala
 1025 1030 1035 1040
 Ala Ile His Ser Ser Ser Ala Asp Ala Thr Ser Ser Ser Asn Tyr His
 1045 1050 1055
 Ser Phe Val Thr Ala Ser Ser Thr Ser Val Asp Asp Ala Leu Pro Leu
 1060 1065 1070
 Pro Leu Pro Val Pro Gln Pro Lys His Ala Ser Gln Lys Thr Val Tyr
 1075 1080 1085
 Ser Ser Phe Ala Arg Pro Asp Val Thr Thr Glu Pro Phe Gly Pro Asp
 1090 1095 1100
 Asn Cys Leu His Phe Asn Met Thr Pro Asn Cys Gln Tyr Arg Pro Gln
 1105 1110 1115 1120
 Ser Val Pro Pro His His Asn Lys Leu Glu Gln His Gln Val Tyr Gly
 1125 1130 1135
 Ala Arg Ser Glu Pro Pro Ala Ser Met Gly Leu Arg Tyr Asn Thr Tyr
 1140 1145 1150
 Val Ala Pro Gly Arg Asn Ala Ser Gly His His Ser Lys Pro Cys Ser
 1155 1160 1165
 Arg Val Glu Tyr Val Ser Ser Leu Ser Ser Ser Val Arg Asn Thr Cys

1170	1175	1180
Tyr Pro Glu Asp Ile Pro Pro Tyr Pro Thr Ile Arg Arg Val Gln Ser 1185 1190 1195 1200		
Leu His Ala Pro Pro Ser Ser Met Ile Arg Ser Val Pro Ile Ser Arg 1205 1210 1215		
Thr Glu Val Pro Pro Asp Asp Glu Pro Ala Tyr Cys Pro Arg Pro Leu 1220 1225 1230		
Tyr Gln Tyr Lys Pro Tyr Gln Ser Ser Gln Ala Arg Ser Asp Tyr His 1235 1240 1245		
Val Thr Gln Leu Gln Pro Tyr Phe Glu Asn Gly Arg Val His Tyr Arg 1250 1255 1260		
Tyr Ser Pro Tyr Ser Ser Ser Ser Ser Tyr Tyr Ser Pro Asp Gly 1265 1270 1275 1280		
Ala Leu Cys Asp Val Asp Ala Tyr Gly Thr Val Gln Leu Arg Pro Leu 1285 1290 1295		
His Arg Leu Pro Asn Arg Asp Phe Ala Phe Tyr Asn Pro Arg Leu Gln 1300 1305 1310		
Gly Lys Ser Leu Tyr Ser Tyr Ala Gly Leu Ala Pro Arg Pro Arg Ala 1315 1320 1325		
Asn Val Thr Gly Tyr Phe Ser Pro Asn Asp His Asn Val Val Ser Met 1330 1335 1340		
Pro Pro Ala Ala Asp Val Lys His Thr Tyr Thr Ser Trp Asp Leu Glu 1345 1350 1355 1360		
Asp Met Glu Lys Tyr Arg Met Gln Ser Ile Arg Arg Glu Ser Arg Ala 1365 1370 1375		
Arg Gln Lys Val Lys Gly Pro Val Met Ser Gln Tyr Asp Asn Met Thr 1380 1385 1390		
Pro Ala Val Gln Asp Asp Leu Gly Gly Ile Tyr Val Ile His Leu Arg 1395 1400 1405		
Ser Lys Ser Asp Pro Gly Lys Thr Gly Leu Leu Ser Val Ala Glu Gly 1410 1415 1420		
Lys Glu Ser Arg His Ala Ala Lys Ala Ile Ser Pro Glu Gly Glu Asp 1425 1430 1435 1440		
Arg Phe Tyr Arg Arg His Pro Glu Ala Glu Met Asp Arg Ala His His 1445 1450 1455		
His Gly Gly His Gly Ser Thr Gln Pro Glu Lys Pro Ser Leu Pro Gln 1460 1465 1470		
Lys Gln Ser Ser Leu Arg Ser Arg Lys Leu Pro Asp Met Gly Cys Ser 1475 1480 1485		

Leu Pro Glu His Arg Ala His Gln Glu Ala Ser His Arg Gln Phe Cys
 1490 1495 1500
 Glu Ser Lys Asn Gly Pro Pro Tyr Pro Gln Gly Ala Gly Gln Leu Asp
 1505 1510 1515 1520
 Tyr Gly Ser Lys Gly Ile Pro Asp Thr Ser Glu Pro Val Ser Tyr His
 1525 1530 1535
 Asn Ser Gly Val Lys Tyr Ala Ala Ser Gly Gln Glu Ser Leu Arg Leu
 1540 1545 1550
 Asn His Lys Glu Val Arg Leu Ser Lys Glu Met Glu Arg Pro Trp Val
 1555 1560 1565
 Arg Gln Pro Ser Ala Pro Glu Lys His Ser Arg Asp Cys Tyr Lys Glu
 1570 1575 1580
 Glu Glu His Leu Thr Gln Ser Ile Val Pro Pro Pro Lys Pro Glu Arg
 1585 1590 1595 1600
 Ser His Ser Leu Lys Leu His His Thr Gln Asn Val Glu Arg Asp Pro
 1605 1610 1615
 Ser Val Leu Tyr Gln Tyr Gln Pro His Gly Lys Arg Gln Ser Ser Val
 1620 1625 1630
 Thr Val Val Ser Gln Tyr Asp Asn Leu Glu Asp Tyr His Ser Leu Pro
 1635 1640 1645
 Gln His Gln Arg Gly Val Phe Gly Gly Gly Gly Met Gly Thr Tyr Val
 1650 1655 1660
 Pro Pro Gly Phe Pro His Pro Gln Ser Arg Thr Tyr Ala Thr Ala Leu
 1665 1670 1675 1680
 Gly Gln Gly Ala Phe Leu Pro Ala Glu Leu Ser Leu Gln His Pro Glu
 1685 1690 1695
 Thr Gln Ile His Ala Glu
 1700

 <210> 435
 <211> 160
 <212> PRT
 <213> Homo sapiens

 <400> 435
 Pro Phe Gln Gln Val Gly Arg Cys Asn Pro Ser Pro Gln Thr Arg Pro
 5 10 15
 Gly Pro Ala Ser Lys Val Lys Gln Asp Met Pro Pro Pro Gly Gly Tyr
 20 25 30
 Gly Pro Ile Asp Tyr Lys Arg Asn Leu Pro Arg Arg Gly Leu Ser Gly
 35 40 45

Tyr Ser Met Leu Ala Ile Gly Ile Gly Thr Leu Ile Tyr Gly His Trp
 50 55 60
 Ser Ile Met Lys Trp Asn Arg Glu Arg Arg Arg Leu Gln Ile Glu Asp
 65 70 75 80
 Phe Glu Ala Arg Ile Ala Leu Leu Pro Leu Leu Gln Ala Glu Thr Asp
 85 90 95
 Arg Arg Thr Leu Gln Met Leu Arg Glu Asn Leu Glu Glu Glu Ala Ile
 100 105 110
 Ile Met Lys Asp Val Pro Asp Trp Lys Val Gly Glu Ser Val Phe His
 115 120 125
 Thr Thr Arg Trp Val Pro Pro Leu Ile Gly Glu Leu Tyr Gly Leu Arg
 130 135 140
 Thr Thr Glu Glu Ala Leu His Ala Ser His Gly Phe Met Trp Tyr Thr
 145 150 155 160

 <210> 436
 <211> 396
 <212> PRT
 <213> Homo sapiens

 <400> 436
 Arg Ala Gln Glu Ala Ala Ala Ala Ala Ala Asp Gly Pro Pro Ala Ala
 5 10 15
 Asp Gly Glu Asp Gly Gln Asp Pro His Ser Lys His Leu Tyr Thr Ala
 20 25 30
 Asp Met Phe Thr His Gly Ile Gln Ser Ala Ala His Phe Val Met Phe
 35 40 45
 Phe Ala Pro Trp Cys Gly His Cys Gln Arg Leu Gln Pro Thr Trp Asn
 50 55 60
 Asp Leu Gly Asp Lys Tyr Asn Ser Met Glu Asp Ala Lys Val Tyr Val
 65 70 75 80
 Ala Lys Val Asp Cys Thr Ala His Ser Asp Val Cys Ser Ala Gln Gly
 85 90 95
 Val Arg Gly Tyr Pro Thr Leu Lys Leu Phe Lys Pro Gly Gln Glu Ala
 100 105 110
 Val Lys Tyr Gln Gly Pro Arg Asp Phe Gln Thr Leu Glu Asn Trp Met
 115 120 125
 Leu Gln Thr Leu Asn Glu Glu Pro Val Thr Pro Glu Pro Glu Val Glu
 130 135 140
 Pro Pro Ser Ala Pro Glu Leu Lys Gln Gly Leu Tyr Glu Leu Ser Ala
 145 150 155 160

Ser Asn Phe Glu Leu His Val Ala Gln Gly Asp His Phe Ile Lys Phe
 165 170 175
 Phe Ala Pro Trp Cys Gly His Cys Lys Ala Leu Ala Pro Thr Trp Glu
 180 185 190
 Gln Leu Ala Leu Gly Leu Glu His Ser Glu Thr Val Lys Ile Gly Lys
 195 200 205
 Val Asp Cys Thr Gln His Tyr Glu Leu Cys Ser Gly Asn Gln Val Arg
 210 215 220
 Gly Tyr Pro Thr Leu Leu Trp Phe Arg Asp Gly Lys Lys Val Asp Gln
 225 230 235 240
 Tyr Lys Gly Lys Arg Asp Leu Glu Ser Leu Arg Glu Tyr Val Glu Ser
 245 250 255
 Gln Leu Gln Arg Thr Glu Thr Gly Ala Thr Glu Thr Val Thr Pro Ser
 260 265 270
 Glu Ala Pro Val Leu Ala Ala Glu Pro Glu Ala Asp Lys Gly Thr Val
 275 280 285
 Leu Ala Leu Thr Glu Asn Thr Phe Asp Asp Thr Ile Ala Glu Gly Ile
 290 295 300
 Thr Phe Ile Lys Phe Tyr Ala Pro Trp Cys Gly His Cys Lys Thr Leu
 305 310 315 320
 Ala Pro Thr Trp Glu Glu Leu Ser Lys Lys Glu Phe Pro Gly Leu Ala
 325 330 335
 Gly Val Lys Ile Ala Glu Val Asp Cys Thr Ala Glu Arg Asn Ile Cys
 340 345 350
 Ser Lys Tyr Ser Val Arg Gly Tyr Pro Thr Leu Leu Leu Phe Arg Gly
 355 360 365
 Gly Lys Lys Val Ser Glu His Ser Gly Gly Arg Asp Leu Asp Ser Leu
 370 375 380
 His Arg Phe Val Leu Ser Gln Ala Lys Asp Glu Leu
 385 390 395

<210> 437

<211> 92

<212> PRT

<213> Homo sapiens

<400> 437

Ala Glu Met Asp Pro Leu Arg Ala Gln Gln Leu Ala Ala Glu Leu Glu
 5 10 15

Val Glu Met Met Ala Asp Met Tyr Asn Arg Met Thr Ser Ala Cys His
 20 25 30

Arg Lys Cys Val Pro Pro His Tyr Lys Glu Ala Glu Leu Ser Lys Gly
 35 40 45

Glu Ser Val Cys Leu Asp Arg Cys Val Ser Lys Tyr Leu Asp Ile His
 50 55 60

Glu Arg Met Gly Lys Lys Leu Thr Glu Leu Ser Met Gln Asp Glu Glu
 65 70 75 80

Leu Met Lys Arg Val Gln Gln Ser Ser Gly Pro Ala
 85 90

<210> 438

<211> 303

<212> FRT

<213> Homo sapiens

<400> 438

Lys Asn Pro Ala Lys Met Ser Leu Tyr Pro Ser Leu Glu Asp Leu Lys
 5 10 15

Val Asp Lys Val Ile Gln Ala Gln Thr Ala Phe Ser Ala Asn Pro Ala
 20 25 30

Asn Pro Ala Ile Leu Ser Glu Ala Ser Ala Pro Ile Pro His Asp Gly
 35 40 45

Asn Leu Tyr Pro Arg Leu Tyr Pro Glu Leu Ser Gln Tyr Met Gly Leu
 50 55 60

Ser Leu Asn Glu Glu Glu Ile Arg Ala Asn Val Ala Val Val Ser Gly
 65 70 75 80

Ala Pro Leu Gln Gly Gln Leu Val Ala Arg Pro Ser Ser Ile Asn Tyr
 85 90 95

Met Val Ala Pro Val Thr Gly Asn Asp Val Gly Ile Arg Arg Ala Glu
 100 105 110

Ile Lys Gln Gly Ile Arg Glu Val Ile Leu Cys Lys Asp Gln Asp Gly
 115 120 125

Lys Ile Gly Leu Arg Leu Lys Ser Ile Asp Asn Gly Ile Phe Val Gln
 130 135 140

Leu Val Gln Ala Asn Ser Pro Ala Ser Leu Val Gly Leu Arg Phe Gly
 145 150 155 160

Asp Gln Val Leu Gln Ile Asn Gly Glu Asn Cys Ala Gly Trp Ser Ser
 165 170 175

Asp Lys Ala His Lys Val Leu Lys Gln Ala Phe Gly Glu Lys Ile Thr
 180 185 190

Met Thr Ile Arg Asp Arg Pro Phe Glu Arg Thr Ile Thr Met His Lys
 195 200 205

200

```

Asp Ser Thr Gly His Val Gly Phe Ile Phe Lys Asn Gly Lys Ile Thr
210                215                220

Ser Ile Val Lys Asp Ser Ser Ala Ala Arg Asn Gly Leu Leu Thr Glu
225                230                235                240

His Asn Ile Cys Glu Ile Asn Gly Gln Asn Val Ile Gly Leu Lys Asp
                245                250                255

Ser Gln Ile Ala Asp Ile Leu Ser Thr Ser Gly Thr Val Val Thr Ile
                260                265                270

Thr Ile Met Pro Ala Phe Ile Phe Glu His Ile Ile Lys Arg Met Ala
275                280                285

Pro Ser Ile Met Lys Ser Leu Met Asp His Thr Ile Pro Glu Val
290                295                300

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<210> 439

<211> 378

<212> PRT

<213> Homo sapiens

<400> 439

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Val Val Pro Ser Thr Lys Asp Phe Leu Val Gly Val Lys Gly Ser Gly
                5                10                15

Gly His Arg Gly Gly Gly Glu Met Ala Phe Ser Gly Ser Gln Ala Pro
                20                25                30

Tyr Leu Ser Pro Ala Val Pro Phe Ser Gly Thr Ile Gln Gly Gly Leu
35                40                45

Gln Asp Gly Leu Gln Ile Thr Val Asn Gly Thr Val Leu Ser Ser Ser
50                55                60

Gly Thr Arg Phe Ala Val Asn Phe Gln Thr Gly Phe Ser Gly Asn Asp
65                70                75                80

Ile Ala Phe His Phe Asn Pro Arg Phe Glu Asp Gly Gly Tyr Val Val
                85                90                95

Cys Asn Thr Arg Gln Asn Gly Ser Trp Gly Pro Glu Glu Arg Lys Thr
100                105                110

His Met Pro Phe Gln Lys Gly Met Pro Phe Asp Leu Cys Phe Leu Val
115                120                125

Gln Ser Ser Asp Phe Lys Val Met Val Asn Gly Ile Leu Phe Val Gln
130                135                140

Tyr Phe His Arg Val Pro Phe His Arg Val Asp Thr Ile Ser Val Asn
145                150                155                160

Gly Ser Val Gln Leu Ser Tyr Ile Ser Phe Gln Asn Pro Arg Thr Val
165                170                175

```

Pro Val Gln Pro Ala Phe Ser Thr Val Pro Phe Ser Gln Pro Val Cys
 180 185 190
 Phe Pro Pro Arg Pro Arg Gly Arg Arg Gln Lys Pro Pro Gly Val Trp
 195 200 205
 Pro Ala Asn Pro Ala Pro Ile Thr Gln Thr Val Ile His Thr Val Gln
 210 215 220
 Ser Ala Pro Gly Gln Met Phe Ser Thr Pro Ala Ile Pro Pro Met Met
 225 230 235 240
 Tyr Pro His Pro Ala Tyr Pro Met Pro Phe Ile Thr Thr Ile Leu Gly
 245 250 255
 Gly Leu Tyr Pro Ser Lys Ser Ile Leu Leu Ser Gly Thr Val Leu Pro
 260 265 270
 Ser Ala Gln Arg Phe His Ile Asn Leu Cys Ser Gly Asn His Ile Ala
 275 280 285
 Phe His Leu Asn Pro Arg Phe Asp Glu Asn Ala Val Val Arg Asn Thr
 290 295 300
 Gln Ile Asp Asn Ser Trp Gly Ser Glu Glu Arg Ser Leu Pro Arg Lys
 305 310 315 320
 Met Pro Phe Val Arg Gly Gln Ser Phe Ser Val Trp Ile Leu Cys Glu
 325 330 335
 Ala His Cys Leu Lys Val Ala Val Asp Gly Gln His Leu Phe Glu Tyr
 340 345 350
 Tyr His Arg Leu Arg Asn Leu Pro Thr Ile Asn Arg Leu Glu Val Gly
 355 360 365
 Gly Asp Ile Gln Leu Thr His Val Gln Thr
 370 375

<210> 440

<211> 2239

<212> DNA

<213> Homo sapiens

<400> 440

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 agaattaagg aaaaaagaaa gaaagaaaaa gagagagagg aaattccagg ccaattgtgg 120
 catagatttt atcatattct ggattttttg gattcttttg tttotcatc actggattca 180
 ggaagagcctg ttgtgtccac catctccaaa ggaggttacc tgcaggggaaa tgtaacggg 240
 aggcctgcctt ccctgggcaa caaggagcca cctgggcagg acgccttttc aggaagagac 300
 gccttttcag gaagagacgc cttttcagga agagagaaag tgcagctgaa gaggaagtc 360
 actttactga ggggagtcct cattatcatt ggcaccatca ttggagcagg aatcttcato 420
 totcctaagg gcgtgtccca gaacacgggc agcgtgggca tgtctctgac catctggacg 480
 gtgtgtgggg tcctgtcact atttgagctt ttgtcttatg ctgaattggg aacaactata 540
 aagaaatctg gaggtcatta cacatatatt ttggaagtct ttggtccatt accagotttt 600

gtacgagtct	gggtggaact	cctcataata	cgccctgcag	ctactgctgt	gatatccctg	660
gcatttggac	gctacattct	ggaacacatt	tttattcaat	gtgaaatccc	tgaacttgcg	720
atcaagctca	ttacagctgt	gggcataact	gtagtgatgg	tcctaaatag	catgagtgct	780
agctggagcg	cccgatcca	gattttctta	accttttgca	agctcacagc	aattctgata	840
atttatagtc	ctggagttat	gcagctaatt	aaaggtcaaa	cgacagaact	taaagacgco	900
ttttcaggaa	gagattcaag	tattacgcgg	ttggccactgg	ctttttatta	tggaaatgat	960
gcatactgct	gctggtttta	cctcaacttt	gttactgaag	aagtagaaaa	coctgaaaaa	1020
accattcccc	ttgcaatatg	tatatccatg	gccattgtca	ccattggcta	tgtgctgaca	1080
aatgtggcct	actttacgac	cattaatgct	gaggagctgc	tgctttcaaa	tgcagtggca	1140
gtgacctttt	ctgagcggct	actgggaaat	ttctcattag	cagttccgat	ctttgttgcc	1200
ctctctgct	ttggctccat	gaacggtggg	gtgtttgctg	tctccaggtt	attctatggt	1260
gcgtctcgag	agggtcacct	tcacgaaatc	ctctccatga	tctatgtccg	caagcacact	1320
ccctaccag	ctgttattgt	tttgacacct	ttgacaatga	taatgctctt	ctctggagac	1380
ctcgacagtc	ttttgaattt	cctcagtttt	gccaggtggc	tttttattgg	gctggcagtt	1440
gctgggctga	tttatctctg	atacaaatgc	ccagatatgc	atcgtccttt	caaggtgcca	1500
ctgttcatcc	cagcttttgt	ttccttcaca	tgcctcttca	tggttgccc	ttccctctat	1560
toggacccat	ttagtacagg	gattggcttc	gtcatcactc	tgactggagt	ccctgcgcat	1620
tatctcttta	ttatatggga	caagaaaccc	aggtggttta	gaataatgtc	agagaaaaata	1680
accagaacat	tacaaataat	actgggaagt	gtaccagaag	aagataagtt	atgaactaat	1740
ggaacttga	ctctggcaat	ctgcocagg	ggagacacaa	aatagggtat	tttacttcat	1800
ttctgaaag	tctagagaat	tacaactttg	gtgataaaca	aaaggagtca	gttattttta	1860
ttcatatatt	ttagcatatt	cgaactaat	tctaagaaat	ttagtataaa	ctctatgtag	1920
ttatagaaag	tgaattatga	gttatcttat	attcttgagt	ctctgatacc	ctctgatacc	1980
tacctattgg	gggttaggaga	aaagactaga	caattactat	gtggctatc	tctacaacat	2040
atgttagcac	ggcaagaacg	cttcaaatg	aagactgaga	ttttctgtga	tttactgggt	2100
ttgtaaaagt	ggttttacac	actacagatg	tctatactgt	gaaaagtgtt	ttcaattctg	2160
aaaaaaagca	tacatcatga	ttatggcaca	gaggagagaa	ggtagagctg	ttcttaaaat	2220
tattaaaaaa	aaaaaaaaa					2239

<210> 441

<211> 5981

<212> DNA

<213> Homo sapiens

<400> 441

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aattaaaggaa	aaaagaaaga	aagaaaaaga	gagagaggaa	attccaggcc	aattgtggca	120
tagattttat	catattctcg	attttttggg	ttcttttgtt	ttctcatcac	tggtatcagg	180
aaagcctggt	gtgtccacca	tctccaaagg	aggttaacct	cagggaaatg	ttaacgggag	240
gctgcctctc	ctgggcaaca	aggagccacc	ttggcagggag	aaagtgcagc	tgaagaggaa	300
agtcacttta	ctgaggggag	tctccattat	cattggcacc	atcattggag	caggatctct	360
catctctcct	aaaggcctgc	tcacgaacac	gggcagcgtg	ggcatgtctc	tgcacctctg	420
gacggtgtgt	ggggtcctgt	cactatttgg	agctttgtct	tatgctgaat	tgggaacaac	480
tataaagaaa	tctggaggtc	attacacata	tattttggaa	gtctttgttc	cattaccocg	540
ttttgtacga	gtctgggtgg	aactcctcat	aatacgcctc	gcagctactg	ctgtgatatc	600
cctggcattt	ggagcctaca	ttctggaacc	attttttatt	caatgtgaaa	tcctgaaact	660
tgcgcacga	ctcattacag	ctgtggcoat	aacgtgagtg	actgtatctg	atagatcag	720
gtcagctgg	agcgcocgga	tcacagattt	cttaaccttt	tgcagctcca	cagcaattct	780
gataattata	gtccctggag	ttatgcagct	aattaaagg	caaacgcaga	actttaaaga	840
cgctctttca	ggaagagatt	caagtattac	gcggttgcca	ctggcttttt	attttggaat	900
gtatgcatat	gtcggctggt	tttaacctaa	ctgtgttact	gaagaagtga	aaaacctgga	960
aaaaaacatt	ccctttcgaa	tatgtatatc	catggccatt	gtccaccattg	gctatgtgct	1020
gacaaatgtg	gcctacttta	cgaccattaa	tgctgaggag	ctgctgcttt	caaatgcagt	1080
ggcagtgaac	ttttctgagc	ggctactggg	aaatttctca	ttagcagttc	cgatccttgg	1140
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ctcacaaatg	atatgatgtg	atatatagg	agatagtttc	actttcatca	tattttatac	5220
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atataaaaa	tagccggggc	tggtggcagg	cgctgttaat	ccagctactc	cgggaggctg	5880
aggcaggaga	atcacttgaa	cccaaggggc	agaaagctga	gttagccaa	atcgcatcat	5940
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<210> 442

<211> 337

<212> DNA

<213> Homo sapiens

<400> 442

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aaacagaatta	aggaaaaaag	aaagaaagaa	aaagagagag	aggaatttcc	aggccaattg	120
tggcatagat	tttatcatat	tctggatttt	ttggattcct	ttgtttctct	atcactggat	180
tcaggaaagc	ctgttggtgc	caccatctcc	aaaggagggt	acctgaagg	aaatgttaac	240
gggaggctgc	cttcctctgg	caacaaggag	ccacctgggc	aggagaaagt	gcagctgaag	300
aggaaagcca	ctttactgag	gggagctccc	attatca			337

<210> 443

<211> 739

<212> DNA

<213> Homo sapiens

<400> 443

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atatctccgt	ctcaaaaagt	actgagttac	ctgtggactg	tgattatgaa	acgcgactcc	180
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aaggtcttgt	ccagcattgt	agggcaacag	aagttacttt	actgaagggt	atacaggatc	300
ccaaactctc	ctctgagctc	cgttgtaact	tcacgacag	ccttatctat	tggtccacc	360
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agacaagctc	ttggtcaaat	gatgcaaccc	tcagcatgt	tttaatgagt	gactggctcg	480
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cagctctcat	atctccaaca	actcgaggtt	taagagaagc	tatgagaagt	gaaggtattg	660
aattttctct	gcctttaata	aaagaaagt	gccataagaa	ggagacagca	cttggaaaca	720
gcttgggata	tggggagga					739

<210> 444
 <211> 738
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 17, 37, 39, 83, 409, 554
 <223> n = A,T,C or G

<400> 444
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 tgataaatat agtttggatat tngnggtctca ttaaattaat cagctttttc acactgggggt 120
 aaagaacacg atgatgatcat tagggaaatgg aaacaaaatt ggaacacctgg gttatttggg 180
 gatttatatt gtactctgca cagttgccct ttttttagg cgtgttccct ggaaaagagg 240
 gacggatgaa cctggaagta agtaaaagac attctagggt tgtagcatca aggcagttta 300
 tatccaagca tcagctttct cttatacat ctacactgca tggcctgca caaataagga 360
 actgaaccag gggatgtgtt ttacctccac agctgcctcc ttccatcana gcaacctgat 420
 gaacttaagt totatgcaca cgtcattggc atgttttctc cccagcattt aattacaaag 480
 cttctttctt ttggatagga tcagttctta agagcagccc cggtaactgg aggaatggga 540
 gccgttttga tganaaaaat gggtttgggt ttcaggatct ccaattataa atgtagtctc 600
 tcagcaccac attccgtaaa gatgatttcc caagtaacgg tatttgacta agttgtctca 660
 gagtgttagg ggcaaacac agtttagtaag ctccattga acaaccccca tatcaagta 720
 tttgtccatt tgcaggca 738

<210> 445
 <211> 716
 <212> DNA
 <213> Homo sapiens

<400> 445
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 tcggcccgga aggcctcttc cttggcaaga tgggattccg ggaggcggtg gcggccggag 180
 acgtggattt gccctcaggt cggagccgca gctacaggag gatgctcgg aggaacccca 240
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 tcaaaacactg gagccatcac acggaagcac gaggagggtat tctcggcag ctactccgg 360
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 ctgctccgg gagctgctg gcaggggccc cagcgaacgc gacgggcacc agcacgtgca 480
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 gctcaaccgg tctccggggc cctggcgccg gtccctggaag gtacccctag ggcccaacac 600
 ctgacagccg agctgatggc gcaccccgcc taccccagt tgcctccacc cggcggtcgc 660
 ggtgaaggcc ccgacgcttt ctctttctgc ttgggaagcg gcttgcatgt agcttg 716

<210> 446
 <211> 641
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 4, 67, 125, 157, 273, 364, 381, 408, 481, 506, 520, 626
 <223> n = A,T,C or G

<400> 446
 gctncaagctc gcgctccgcc ctacaggcaca gcatcccccac gggcctccac gccaacctgt 60
 ccgaggncgg ccccggtgggt ccggcccgcc gtggcgccctc atcgctgtct ggcccggag 120
 gcttnttctc tggcaagatg gattcccggt aggcggnggc ggcgggagac gtggatttgc 180

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ctcagggtgag gagccgcagc tacaggagga tgctcgcgag gacccccaga gctccgccc 240
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gccatcacac ggaagcacga ggagggtatc ctccggcagct actcccggtc gctcaagggtg 360
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gtccggccccc ttggcgccgg tccctggaagc taccctacgg gccacacctc gacagccgaa 600
ctgatggccc accccggcta cccangtgt gcctccacc 641

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<210> 447
<211> 652
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> 540, 580
<223> n = A,T,C or G

```

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<400> 447
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ctttaatgcc aaccagatg agggagtga ctactttatg tccaagggtg tccctgggatg 120
ttcgccaaa gaaatgacaa agtttatctt ctgtacaaga acactaaatt ggaaaaaact 180
gagaatctat cttgatgaaa ggagagatgt cttggatgac cttgtaacct tgcaaatatt 240
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caacctgat ttaatcgag aacttgccct tagtccctgat gctgtctatg tactgtgcta 420
ctctttgatt ctactttcca ttgacctcac tagccctcat gtgaagaata aaatgtcaaa 480
aagggaaatt attcgaaata ccccgccgcg tgctcaaaat attagtgaag aattttgtan 540
ggcatcttta tgacaatatc taccttattc gggccatggn ggctggcata aaaaagcacc 600
aattggctaa ggactttcaa gttttttact ttcagaactt aaaagcttac cc 652

```

```

<210> 448
<211> 677
<212> DNA
<213> Homo sapiens

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```

<400> 448
gaaatcgaac cccttcggcg cctggcagag gtgaaggact ccctggacat cgaggtaacg 60
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cacctgaaga aactggaggc ccgcccgtg gactttgact acaagaagaa gcggcagggc 180
aagatccccg atgaggagct acgcaggcgc ctggagaagt tcgaggagtc caaggaggtg 240
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cggaccocctc gccgagacat gccgcccctg gaccagccga gctgcaaggc gctgtacgac 600
ttcgagcccg agaacgcagc ggagctgggc ttcagtgggg cgacgtcatc acgctgacca 660
accagatcga tgagaac 677

```

```

<210> 449
<211> 603
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature

```


<222> 10, 213, 287, 574

<223> n = A,T,C or G

<400> 449

```

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ttgccttgga ccgtgcccaa agctgtgtgc tcatctctgc gccctcatg tacttctgac 120
gaggggggtg caggggcaggg cagagcagag cctgggggtcc ggaggcttca ctggaccaca 180
ggggggaggg aatgtgaatg tggcctggcc canagaactc cccatttcac cgatttttga 240
ttggggcgata gaggaagcag atgtcggggc tgcctgcott ggtctanagg agatggcttg 300
ggccaattcc cacagggtga agtggcagcg gctcagcaag gggagcctgg ccaccagggg 360
ctggggacat cgctcactgg aacctttgtg ctggggccct ggcagcgccg ctgtggctcc 420
gtgtgaggtg tgcctgggtg ggggtgtgggt ggctggtggt ggcagcttgt gccagagtga 480
cacaggcctc cctgggttgg gatgggggca agttaaaaag ctgaaaaagg acttggtctt 540
ctgaggggcg gcttgggagc aggccttgca gganaccatg ttctctgtcc tcagcagatc 600
cac

```

603

<210> 450

<211> 678

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 29

<223> n = A,T,C or G

<400> 450

```

gaattcgaac cccttcgcat caatataana tgccacccat ctgcagttaa tttcttttcc 60
tcatcatgtg attaaaaatg gtgattcagt gggaaactgg aatgttttta gctgggtgta 120
gaaggctggc taacctgggc actgttttag attctcatat cattttaaaca gcaaggaggt 180
tcagggaaga ataaccttag ccttgggttaa tccactaggg ctttttgtgag taggagagct 240
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actgacgtat cccaaattat atgctgtgac ataaattccc agcatgcccc gccctgattt 360
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gccattggct ttgtttgcat caccaagacc agacatccag aagagccctc caccttgaaa 480
agcagacaga ttttaaatat accccctcct tccactcac ctctcatctc ctaagagttt 540
tggccattta attccacatt ttgaaaggaa tacattgggt aaatttggga agagaatctg 600
tgctatgcaa tgtttcatta aaatcttcag tttttcaagt ctctctaaaa ataatttgta 660
gatctatctt ggatggat

```

678

<210> 451

<211> 651

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 30, 60, 351, 354, 419, 498, 540, 582

<223> n = A,T,C or G

<400> 451

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tttttcatca acaaaaaatca agcattttcn ttttttgtaa acaagaaaaa cgcacgtan 60
aaaccaagat tctgtacaat attctaacat tatatgtaca taaaattata ttactcataa 120
ctatatgtga aagtcttatt tgtagaatat ggcctggcaac aaagaaaagc ccataccatt 180
tagcggttga agcaggggcag gttagcaagag aacattagca aagacacctt tgtgcctgga 240
tacacaatcc tgctactaag ttatgtgact aaccagcaca ctctaagttc tgtggtttgt 300
tcgtgttttc acattctagt agggaaattct gcagcaggcg atgcgaaaaa naanacatgg 360
tcaaatgaaa tgtgaaatgc tgtttaaaaa ctgcataatt gctatgataa tgggtttgng 420

```

```

aatccaagtt gcatggaag ttcactcatt ctccattcat tatgcatgcc tccagtgtatt 480
taatgaattt cagcagngg aaaagacagc ttggaacaga tcagatgggc tgtgagtcac 540
attctgtatt ctctttctc atttggctcc tgaatgttc anaaaactgc tttgtacac 600
tggggaagga gagagtgaag accctccagt tggttctcca gtcagctccg t 651

```

```

<210> 452
<211> 679
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 30, 31
<223> n = A,T,C or G

```

```

<400> 452
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aaagaacctc agcaggtagt acgtagagct cctgagccac gagtgtattga cagagaggggt 180
gtgtatgaaa tcagcctgtc acccacaggt gtatctaggg tctgtttgta tctcggcttt 240
gttgacgtga aagaagctga ctggataatt gaacagcttt gtaagatgt tccctggaaa 300
cagaggaccg gcatcagaga ggataatact tatcagcaac caagacttac agcatgggtat 360
ggagaacttc cttacactta ttcaagaatc actatggaa caaatctcca ctggcaccct 420
gtgctgcgca cactaaagaa ccgcattgaa gagaacacty gccacacctt caactcotta 480
ctctcaatc tttatcgcaa tgagaaggac agcgtggact ggcacagtga tgatgaacct 540
tcactaggga ggtgccccat tattgcttca ctaagttttg gtgccacacg cacatttgag 600
atgagaagaa agccaccacc agaagagaat ggagactaca catatgtgga aagagtgaag 660
atacccttgg atcatggta 679

```

```

<210> 453
<211> 630
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 30, 31, 39
<223> n = A,T,C or G

```

```

<400> 453
gaattcgaa cccttcggaa ggccaagggn ntagaaggng gctccggccc cagctgtcgt 60
gaagaagcag gaggctaaga aagtgggtgaa tccctgttt gagaaaaggc ctaagaattt 120
tggcattgga caggacatcc agccccaaaag agacctcacc cgctttgtga aatggccccg 180
ctatacagg ttgcagcggc agagagccat cctctataag cggctgaaaag tgccctcgtc 240
gattaaaccag ttacccagg ccctggaccg ccaaacagct actcagctgc ttaagctggc 300
ccacaagtac agaccagaga caaagcaaga gaagaagcag agactgttgg cccggggcga 360
gaagaaggct gctggcaaa gggacgtccc aacgaagaga ccacctgtcc ttcgagcagg 420
agttaacacc cgtcaccacc ttgggtggaga acaagaaagc tcagctgtgtg gtgattgcac 480
acgacgtgga tcccatcgag ctgggtgtct tcttgccctgc cctgtgtcgt aaatggggg 540
tcccttactg cattatcaag ggaaggcaca gactgggacg tctagtccac aggaagacct 600
gcaccaactgt cgccttcac aggtgaactc 630

```

```

<210> 454
<211> 677
<212> DNA
<213> Homo sapiens

```

```

<220>

```

<221> misc_feature
 <222> 29
 <223> n = A,T,C or G

<400> 454
 gaattcgaac cccttcgccc gcatgcggna catcccccttg gccccagggt cagactggcg 60
 cgattcgccc aacatcgagg tgcggctctc agacggcacc atgggccagga agctgcggta 120
 tacccaccat gacaggaaga acggccgcag cagctctggg gccctccgtg gggctcgctc 180
 ctgcgtggaa gccgcgcaag cctgcgaccc cgcagccagg cagtccaaca cctcatccc 240
 ctggtcgctg cccacacccg ggaaccggca caaccactgg gctggcctct atggaaggct 300
 cgagtgggag ggctttctca gcacaaccgt caccaccccc gagcccatgg gcaagcaggg 360
 ccgctgtctc caccagagc agcacccgtg ggtgagcgtg cgggagtggt cccgctccca 420
 gggcttccct gacacctacc ggctcttcgg caacatccgt gacaagcacc ggcaggtggg 480
 caatgcctgt ccaccgcccc tggcaagacc attggtcttg agatcaagct ttgtattgtt 540
 ggccaaagcc cgagagagtg cctcagctaa aataaaggag gaggaagctg ctaaggacta 600
 gttctgcctt ccgctcacc cgtgtttctg caccaggaat ccccaccaat gcaactgatg 660
 gtgggggttt aacatgt 677

<210> 455
 <211> 598
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 465, 541, 556
 <223> n = A,T,C or G

<400> 455
 ttttttgggt tataggagag atttatttga agaaatatta caacataata aaactacata 60
 aagtcttaat ttccactcat acagtggtag atttgatata atgcataata aaaaactttt 120
 aaaaaccaga atgcacaaag tactgcacaa ttgtatcact aaatcattag ttgataagcg 180
 aacctccacac aacagcttca tgtcagccaa gccacaaac accatgtacc acacatgtga 240
 acggacagat tgacatgtta aaaacacaaac atcagtgcac gttggggatt cctgggtgcc 300
 gaaacagggg tgacgggagg gcagaaactag tccttagcag ctctctctc ctttatttta 360
 gctgaggcac tctctcgggc tttggccaaac atacaaagct tgatctccaa gccaatgggt 420
 ttggccaggg gcggtggcac ggcattggcc acctgcccgt gcttngtcca gctgtgtgcc 480
 cgaagagccg gttaggtgttc aagggaagcc cctggggaag cgggcacact cccggacgt 540
 naccacacgg tgctgntttt gggtgagaca cgcgggcctt gcttgcccat gggctcgg 598

<210> 456
 <211> 574
 <212> DNA
 <213> Homo sapiens

<400> 456
 ggaattcga ccccttcggg gcggggagcc ccgtagaacc gaggggggtcg gcccggggggt 60
 cccgggggag gtggagatgg tgaaggggca gccgttcgac tggggcccg cgtacacgca 120
 gttgcagtac atcggcgagg gcgcgtacgg catggctcagc tcggcctatg accacgtgcg 180
 caagactcgc gtggccatca agaagatcag ccccttcgaa catcagacct actgccagcg 240
 caccgtccgg gagatccaga tcctgctgcg ctctccggcat gagaatgtca tcggcatccg 300
 agacattctg cgggcgtcca ccttggaagc catgagagat gtctacattg tgcaggacct 360
 gatggagact gacctgtaca agttgctgaa aagccagcag ctgagcaatg accatatctg 420
 ctacttcctc taaccagatcc tgccgggcct caagtacatc cactccgcca acgtgctcca 480
 ccgagatcta aagccctcca acctgcttca tcaacaccac ctggcgacct ttaaaatttg 540
 tgaatttcgg gcctggcccc oggattgccc gaat 574

<210> 457

<211> 546
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> misc_feature
 <222> 234, 534
 <223> n = A,T,C or G

<400> 457
 ttttttgaca catctctata tttatatatt agacgggtca gggaggtggc agggggccgc 60
 ggctctccac gcccccacgc tccactttctg ctcaccacac acagaagcag cgagggccag 120
 cgaagtgcaca gctttgacag ggaggggatt cggcccggcc tggctcctca gggatgctag 180
 cccttgagac taaggaaatgt tccttcacggg aaactagggt ggggtttgaa tganatgagg 240
 ggggcaggca tggccctgag tcctactacta gcgcccccca cctccacact ctgcccctca 300
 gcaggttggg gcagccagaa cctctccatt ccagaactgc cagagactgg gacgctgggg 360
 aaggtaaagg cgcagcagca gcagcgggag attgaaactgg ggccacctga gctcccggag 420
 ccccgctggg agggcggggt gggaggaaaaa ggccctgggc tgccctgaagc tggagggcctc 480
 agcaaaaggag agaggtggcc agggcccatgc tccaccccg cctgggctgc caanggtccc 540
 gggctg 546

<210> 458
 <211> 674
 <212> DNA
 <213> Homo sapiens

<400> 458
 gaattcgaa cccctcggtt ttattaagaa ctaagagaat agcttggcag atacaatagg 60
 aaacaccttc caaatgagtc ggagaaaatg tcttgacgta ttatgggtaa aatagcaagg 120
 agcttgggaa tacagtttgc taatatcaag tccttaacaa cgaccattct tcatccaaga 180
 ttagtgtgtg ataaatacat gottcttcag gacttgactt agaaaaaagg caaacaacaa 240
 aacatcagaa actattttaca actgggagca atccttgaag aacataaaga atataaatat 300
 caacaaaggc tgaaaactct tttttagatt aaagatcaaa tggacatgac atcgggaatgt 360
 attgtatggc tcttgattaa atcctggagc aaagtggaga gtgaggaaac actgtaaaga 420
 atgtgaatag ggaactgtgt ttagataaca gtaccataaa tttcctggat gggataatta 480
 tgttgtgact atgtaagaga atattttgcc cttagaagat atatgatgaa gcatttagaa 540
 gtaaatgatac atgacatctt gcaataaact ttcaagtgat tcagccagat atataaaaaat 600
 tatataatac acattatata atttatattt atataattat aatacattat ataatttata 660
 cattataatt atat 674

<210> 459
 <211> 682
 <212> DNA
 <213> Homo sapiens

<400> 459
 tttttttaa tccatggctt gttaattgtc atcccagtta tttacatgtg actatagaga 60
 ctgcattctc ccagctgccg gggccggcag gctttggcac tgggtataatt tataacacga 120
 ctaattaaaa tgaattttgt tgcaataagg ttctgtgtgc tattttgtgg agaggagtta 180
 ttaaaatttt cagtacagta atagtaaact tgaatgcaaa gtaataataa tcatacattt 240
 ttaattacat gtttaatacc catttggcta atgtagaact attctgaaaa ttaacttggga 300
 tcagcacaat gtccttttgt gcttagtagt atccaaagac atcctcttga atgggcttag 360
 caatatgcac tgtcatcaag atacagctgt ttgatgcag acacacagtg tgttctatgt 420
 atactttgca caagatcagc tatgacaaat acaaagttcat tttgcttatt gcaggcaaat 480
 aatgtccttt gcaggaaact ggaaggagcc agagggccatt attctaaagt aaatacctca 540
 ggaagtggaaa accaaatacc atatgttctc gactcataact ggaactcaag ctatgggtac 600
 acaaacgcac atagagtaat ggaactctgc gactcatact acataattgag tacaattgtac 660
 actacttggg tgatgggtgc ac 682

<210> 460
 <211> 663
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 628
 <223> n = A,T,C or G

<400> 460
 gaattcgaaac cccttcgcgg ggccgcgcgag cggcgccagc tcgggggcagc ggaaccacaga 60
 gaagctgagag gggcggttagc ggccgcgcgag cgcagcagcga cgcactccgc gcgtgtgccc 120
 agcctcttcc cgcgcgcagcc gcccttttcc tccctccctt acgtcccaga gtgcggcagt 180
 accgcctcct tcccagccgc gcggttctct ccagacctct cggcgcggtt gagccctatt 240
 cccagaggca ggtggtgctg accctgtaac ccaaaggagg aaacagctgg ctaagctcat 300
 cattgttact ggtgggcacc atgtccttga agcttcaggc aagcaatgta accaacaaga 360
 atgaccccaa gtccatcaac tctcgagtct tcattggaac cctcaacaca gctctggtga 420
 agaaatcaga tgtggagacc atctctctta agtatggccg tgtggccggc tgttctgtgc 480
 acaagggcta tgcccttctt cagtactcca atgagcgcca tgcccgggca gctgtgctgg 540
 gagagaaatg gcgggtgctg gccgggcaga ccttgacat caacatggct ggagagccta 600
 agcctgacag acccaagggg ctaaaganaa gcagcatctg gcataacag cgtcttcgac 660
 tac 663

<210> 461
 <211> 612
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 19, 44, 134, 151, 199, 258, 337, 422, 491, 564, 590, 594
 <223> n = A,T,C or G

<400> 461
 ttttttggga tccaatctnt ttattgtcag ggtcccctcc ctgnngccccc cgcacaaacc 60
 tatagaaaaa acccaagcct gggagtgtcc tggggagggg aggtagtatg gggaaacccc 120
 tgtgtctctac cctntggcct gggcagtgca nacaggagg gctcatgggg aaggagttagg 180
 ccagtaactc caactgcana ggacatggca ctggctggga tgcgttgggg gaggagggcg 240
 ctgctgccag ctttctctntg gtaccgcgtg gggggtggca tccagggttg ggtgcccgcg 300
 ttgaggcctg gggcagcgat gcccttcacc tgctggnggc cattgtcctc gtcaggctgc 360
 ttactgcaag gccccatcat ccgcgtctgt gtccctggctg tggttccagct ctctctcgct 420
 gngtgtcagg agcccttctc catcgccgtc gtctcgggtc cgtgtctccc cctggggcag 480
 gcctgcctca naagttgtgt tctcttgggg ggctggtggc cggttgttgc caccgcaccc 540
 caccacactt ggcaccggca ccgntgcacc accaccggcg ccgcgcgcgn tggngccacc 600
 ttcatcacc tt 612

<210> 462
 <211> 672
 <212> DNA
 <213> Homo sapiens

<400> 462
 gaattcgaaac cccttcggat ggaagggggc ggggcagcgt cggggaaagg aaggggccga 60
 ggccgcgcgg cggcgccggc agagggggcg cggcgccggc cgcggcgggg ttcccgcggc 120
 gcggagcccg gcccgagagc ccgcgtccacg ttccctgcctc ctgctcccgc cgccttgggg 180
 cgcgcgcgat acgcccagat tgctcaactt cagcccaga tgtacacaag ctctcggagt 240

```

ctaacaagga gaacgcgctg cacagctaca gcacccagaa gggcccccctg aaggcagggg 300
agcagcggcg gggctctgag gtcacacagc ggggtggccc tcggaaggcg gacggggcagc 360
gtcagcgctt ggactacgtg gagctctcgc cgctgaccca ggcttccccg cagcggggccc 420
gcaccccgag ccgcactcct gaccgcccct gccaaagcag aggagctgga gcggggacctg 480
gccccagcgt ccgaggagcg gcgcaagtgg tttagggcca cagacagcag gaccccgagag 540
gtgcctgctg gtgagggggc gcgcggggcg ctgggtgccc cctgactgag gaccagcaaa 600
accggcttag tgaggagatc gagaagaagt ggcaggagct ggagaagctt gcccttgcgg 660
gagaataacc gg

```

```

<210> 463
<211> 562
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 40, 41, 501
<223> n = A,T,C or G

```

```

<400> 463
ttttttaaag tataaagtgt tttggaaaaa aaggaaaaan ntctatataa aaatctcttc 60
acatatataa tcttgaagaa ggtgcaaggt gagacccagt gcgagggggg tgctcagata 120
tgacgtgtgt gtgtgtgtgt gtgtgtgtgt gtatccgtgt gtacatgtgt gcaactgtgt 180
gcgtatgtgt ctgtgtgtct gtgtgtgtgt gtgtgtgtgt gtgtgtgtgt ggtgggtgca 240
agtgaacgtg tggccccacag aggggtggga gaaagcttgg ctttttactt ccataccagga 300
gggaaggagg gcggtgtgtc ctccagccctg gaggtgtctg agctggggcg gacctctact 360
cagccaggct gtgtgcgcac gactccttct cctggagggc ggccatggcg agacgcaggt 420
gctccttcag ctgtcgcgac tcccgcctcag accgtgtctt gatgtggctc aactccacat 480
agacgtcctg gtactttccc nagggtgaagc gcttgcctt ctgcatcatc tggagctcgt 540
ccggaggcca ctgcaccttc ct

```

```

<210> 464
<211> 553
<212> DNA
<213> Homo sapiens

```

```

<400> 464
gaattcgaac cccttcggga ccaggaaccc aggagagcat ggccacgctg cgcggcttc 60
gggagcgccc ggcgcactta ctggtttgag gaaataccaa cttcggaac cacaagtgcg 120
gccacggcca tcttgtgcag acgcactact ataactacag ggtttcattt ctcatctctg 180
aatgtgggat actatcggaa gaactgaaaa acctggtcat gaacactgga ccctattact 240
ttgtgaagaa ttacactctt catgaattaa ttacacctga attcatcagt acctttataa 300
agaaaggttc ttgctatgca ctaacatata atacacatat tgatgaagat aatactgttg 360
ccctgtaccc aaatggaaaa ttaattttgt cactggataa agacacttat gaagaaactg 420
gacttcaggg tcatccactc cagttttctg gcagaaaaat tatgaaattt agttcagaag 480
aatcgacaat gatgtcatat ttttccaagt accaaattca ggagcatcag ccaaaagtag 540
cactgagccc gtt

```

```

<210> 465
<211> 383
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 50, 73, 121, 161, 196, 233, 240, 255, 265, 267, 285, 374
<223> n = A,T,C or G

```

<400> 465
tttttgggaag aaaaacacgat ttttaatttt tattttttat gggggacagn gatcatttgc 60
cccaacagcc atntgaagcc aatagtcctg attattataaa atcacaaagt tatataaatg 120
ntctctctct tttcgaaac catgttcatt tttttcccaa naaacagggc tgtctgcaaa 180
gccttgaacg gacagngtaa cccatggagc taacttcggt tcatcaaatg agngacagan 240
atgttccaat agganacaga tcttntntgg aagtatgaag ccagnattg tacacaaata 300
agcttttgcc accactgtgc ttggtcagg acagcaatag gttgatatga aattattagg 360
ctcattattt agngcgacat tac 383

<210> 466
<211> 673
<212> DNA
<213> Homo sapiens

<400> 466
gaattcgaa cccttcgctc cctcctgcac gcaatggttg cctatgatcc cgatgagaga 60
atcgccgccc accaggccct gcagcacccc tacttccaag aacagaggaa aacagagaaag 120
cgggctctgg gcagccacag aaaagctggc tttccggagc accctgtggc accggaacca 180
ctcagtaaca gctgccagat ttccaaggag ggcagaaagc agaaacagtc cctaaagcaa 240
gaggaggacc gtcccaagag acgaggaccg gctatgtca tggaactgcc caaactaaag 300
ctttcgggag tggctcagact gtctgtttac tccagcccca cgctgcagtc cgtgcttga 360
tctggaacaa atggaagagt gccggtgctg agaccctga agtgcatccc tgcgagcaag 420
aaggtagcgc ggaaccagct tctctgacgg cgctgctctt cgaccagccc caggccgcaa 480
ctgaattttt tgtctgtaat ttttctttga cagacagatc cgcagaagga ccttaagcct 540
gccccgcagc agtgcgcct gccaccata gtgcggaag gcggaagata actgagcagc 600
accgtgctct cgacttcgga ggcaacacca agcccagccg gcccaggcct gggtagctctg 660
ctgctgagac gcc 673

<210> 467
<211> 373
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 25, 44, 53, 65, 115, 145, 149, 212, 238, 270, 289
<223> n = A,T,C or G

<400> 467
tttttactgg aacgacagct tatnttttaa taaaagtcag gggngtcagc agngtgcactg 60
gtaanacatg atggcgctcc acgactgacc agcagcgctg ggaaggagaca cgcanaaccc 120
accttocaac cagcccaac acatnacana aatgcctgct cgttgtgttt gattcatata 180
caaaagtaca aagtatttcc tgccccaaat tnttaacgaa aatgaagaa aacctanana 240
tgccgggggt ttacaagtat attagccan aacatcctag gcagctgccc gggccgagg 300
tgccggcagg cgcagggcaa caccctaaag cccggccagc gcgaaacgga cgcaggcgca 360
tcccagccc tcc 373

<210> 468
<211> 573
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 62, 485
<223> n = A,T,C or G

<400> 468

```

gaattcgaac cccttcgctg ctgtcctact tgatgcttgt cactgtcatg atgtggcccc 60
tngctgtgta ccacgcagctg tgggatcgag catatgtgcg gctgaagcca gctctgcagc 120
ggctagacct cagtgtccgt ggctacatga tgtccaagca gagagagaga caattacgcc 180
gcagagctct ccacccagaa cgagccatgg acaaccacag tgacagcgaa gaggagcttg 240
ctgccttctg tctcagctg gagcattcta ctgttgccag ggaattggcc atcacagact 300
ctgagcactc agacgctgaa gtctcctgta cagacaatgg cacattcaat ctttcaaggg 360
gccaaaacac tctaaccgaa ggctctgaag acctagatgg tcacagtgat ccagaggaat 420
cctttgccag agaccttcca gacttccctt ccattaatat ggatcctctt ggcctggatg 480
atgangacga cactagcatt ggcatgccca gcttgatgta ccgttctccg ccagggggct 540
gaggagcccc aaggccccc ctgccagccc ggg 573

```

<210> 469

<211> 635

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 3, 52, 83, 84, 551

<223> n = A,T,C or G

<400> 469

```

tcnogatcta gaactaggtt ggacagcgtt gctcaagttt caccagagtt antactggcc 60
tctgttcgca gagttttttg tttnacactg cagaattggc agactacacg gtttatggaa 120
gttgaagtag caataagatt gtgtgatatg ttggcagaag ctcttcagat atctcatggt 180
gtctacttct cagggtgatgt ttcaaaagct agtgctttgc aggatgatgat gcgaactgta 240
agtatactgg agataatttt gaccataaat ttctgttttc agtataagct aatgggagtt 300
ccttaattgt tagagcttag tatatgttaa taccggggca tttttagtgt gcaataaata 360
agaagaggtt tcttaacttt ttctgtatct agctggtaac atcaggagtc agttcctatc 420
agcatacatc tgtgacattg gaggttcttg aaactgttgt tagatatgaa aagtttttca 480
cagttgaacc tcagcacatt ccagtgttac taatggcttt cttatagatcac agaggctctc 540
ggcattccag ngcaaaagtt cggagcagga cggcttaact gttttctaga tttgtcaaat 600
ctctcaataa gcaaatgaat cctttccttg aggat 635

```

<210> 470

<211> 593

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 31, 138, 140, 226, 469, 484, 567

<223> n = A,T,C or G

<400> 470

```

gaattcgaac ccttcggtat taacaaatat ntacatttct atttttataa tccataagga 60
tatgcctgtt ttaataaaca taacatttaa caatatctat caggaaaacc ctcaagacag 120
ctctagttaa aaaccttngn tgctgtcttc tcaaaactata tttataaaaa tttgctaggg 180
ccaaatccat acttcagaa taattcatca aattttattt ttaagngaaa agtaaccttt 240
caggcatttc agcagcatatc attgacaatc taggggtatat atgtatgtat gttctattat 300
gtatgtctat atatgtatgt ggggaggaca ggagtgaatg ttcacacact tttcttgcgt 360
actcaactaa attggagaat gtttctgaag aaaattggat gaaattagct gctgagattg 420
agttttctgc ttaaaatctg aaacaaaaaa agggacaaat tgctggtang atctactgac 480
tgtngccatc accagaacac ttagtcttct ccagacatg aatttctga caggctctga 540
gccagaacaa cactgtgggc gtgcatntgg gtcacctggt atatgcctcc act 593

```

<210> 471

<211> 581

<212> DNA
 <213> Homo sapiens
 <220>
 <221> misc_feature
 <222> 13, 349
 <223> n = A,T,C or G

<400> 471
 tttttttaat cangggacat ttattaacat gcttcaaaag tgaccaaaagt gtccagccag 60
 cacaatagcc gagggcaatca acgtttctctt agtgtgtgat ctctgccaaa acaccaataa 120
 aataggttta ggaataaact caaataaatt gtaatttaac ttccgccaaa attatacatc 180
 ctctactgct ctctcctgct cctgtaaaga tactagcggg agggggagaaa gctcaaatga 240
 ctctgtaatt tagaattaca accagagaag aaataacttca agcacataaa agacgttcca 300
 ttgaagagcg acattcattc tggaatgttt gttttgaaaa caactcttnt gggggaattc 360
 aaaagggtact gaacaaagca acataaaagta agttttgggt tgttttgcaa aataaaaaata 420
 tacaatttag tggaccagat ggcaaaaaca taccoattac aatctgtaatg ctatattttaa 480
 aacctttaa ttctgaaggc ctgaatatca acaaacctat ttatgtttat gatcctaaaa 540
 agacattaaa tattattaaa cccccaactt ccaaaacata g 581

<210> 472
 <211> 674
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 31, 625
 <223> n = A,T,C or G

<400> 472
 gaattcgaa cccctcgcat ggcgtgatgt ntcacagaaa gtcttccgct cccagacatg 60
 ggtccctcgg ctctcctgct cggaaagcga gcagcaggca tcgtgggaag gtgaagagct 120
 tccctaagga tgaccctgcc aagccggctcc acctcacagc ctctcctgga tacaaggctg 180
 gcatgactca catcgtcgcg gaagtcgaca ggccgggato caagggtgaac aagaaggagg 240
 tgttgaggcg tgtgaccatt gttagagacac caccatgtgt ggttgtgggc attgtgggct 300
 acgtggaaac cctcgagggc ctccggacct tcaagactgt ctttgcctag cacatcagtg 360
 atgaatgcga gagcgcttcc tataagaatt ggcataaato taagaagaag gcctttacca 420
 agtactgcga gaattggcag gatgaggatg gcaagaagca gctggagaag gacttcagca 480
 gcatgaagaa gtactgccaa gtcatccgtg tcattgccca caccagatg cgctgtcttc 540
 ctctgcgcga gaagaagccc aactgatgga gatccaggtg aacggaggca ctgtggccga 600
 gaagctggac tgggccccgc gagangett gacacaggta cctgtgaacc aagtgtttgg 660
 gaggatgaa aatg 674

<210> 473
 <211> 646
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 10, 30, 73, 101, 163, 196, 206, 309, 325, 345
 <223> n = A,T,C or G

<400> 473
 ttttttcagn ggaaataaac ttttattgan accccaccaa ctgcaaaatc tgttctctggc 60
 attaaagctcc ttnttcttt gcaattcggc ctttcttcag nggtcccatg aatgctttct 120
 tctcctccat ggtctggaag cggccatggc caaacttgga gngngtgcata atgaacttaa 180

```

ggtcaatctt ctccanagcc cgcgnttgc ttgtcaccag caaggacttg cggagggtga 240
gcacccgctt cttggttccc accacacagc ctttcagcat gacaaagtca ttggtcaact 300
caccatagng gacaaagcca cccanagggt tgatgctctt gtcanaatag tcatagttag 360
tgaggagcatt gttcttgatc agcttgccgt ccttgataag gttagccctgg ccaatcttat 420
aaatcttctt gttgatctca gtgcggtgat ggtagccttt ctgcccacgc cgtgccacag 480
agaaggtcac acgagcagga tgccatgccc caatacacgc cactcttgcc aggcctcggt 540
gggtcttgcg gggcagcttc ttggtgtgcc aacgactggt gaccctcttg tagcctttgc 600
ccttggtcac cccgatgagc tcgatcatct catcctgcgc aaacac 646

```

```

<210> 474
<211> 544
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 32, 495
<223> n = A,T,C or G

```

```

<400> 474
gaattcgaac cccttcggga gcacactccc antcggcgcc agcctgacac gccgcgcggc 60
ccccagctct cccgcggctg cccccccagg catggccacag ggccctgcct cactatggca 120
gcagcagcggc acagcagcgt cgacttcatg ctccggcgcca aagctgatgg tgagaccatt 180
ctaaaaggcc tcacagtcac ttccaggag caggggatgg cggagctcgt gcacacctgg 240
caggacccatg gctatttagc aacctacaca aacaagaacg gcagctttgc caatttgaga 300
atttaccacac atggattggt gttgctggac ctacagagtt atgatggtga tgcgcaaggc 360
aaagaagaga tcgacagtat tttgaacaaa gttaggaaa gaataaaga attgagttag 420
gacaagtact gggcggtgta aacgattacc accatagtg cgaggaggag ccacgcagac 480
atactggccc accgncgacg ggcgcttgg ttgaatatga catagaatga agtggatat 540
gacg

```

```

<210> 475
<211> 578
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 31
<223> n = A,T,C or G

```

```

<400> 475
gaattcgaac cccttcggga gaaccccatg ngggaacttc gcattccgcaa actctgtctc 60
aacatctgtg ttggggagag ttggagacaga ctgacgcgag cagccaaagt gttggagcag 120
ctcacaggcg agaccctctg gttttccaaa gctagataga ctgtcagatc ctttggcatc 180
cggagaaatg aaaaagattg tgtccactgc acagttcgag gggccaaagg agaagaatc 240
ttggagaagg gtctaaaggt gggggagtat gagttaagaa aaaaacaact ctacagatct 300
ggaaactttg gttttgggat ccaggaaacac atcgatctgg gtatcaaata tgacccaagg 360
attggtatct acggcctgga cttctatgtg gtgctgggta ggccagggtt cagcatcgca 420
gacaagaagc gcaggacagc ctgcattggg gccaaacaca gaatcagcaa agaggaggcc 480
atgcgtggtg tccagcagaa gtatgatggg atcatccttc ctggcaataa aattcccggt 540
tctatccaaa agagcaataa aaagtgttca gtgaaaaa 578

```

```

<210> 476
<211> 619
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 46, 51
<223> n = A,T,C or G

<400> 476
ggaattcgaa ccccttcgct cctgcctgtc cgccatgttt tcaggncggg nctggcttgg 60
tcttcccccg taaggaaatg gccgggggag ccaggcgccg tcgcttcggc 120
ggagcctggg ctgaccagcc aggacagcgg ggtaaacccg acaaatctcg cgcgaggtag 180
ggaggccatg gogtccggca gtaactggct ctccgggggt aatgtcgtgc tgggtgatgg 240
ctacggggag cttggtgttt tactgtcatt tattttttgt aagaggcaaa tcatgcgctt 300
tgcaatgaaa tctcgaagg gactcctatg cctcgtggga cacaatgcc ccaaggactt 360
gaaagaggag attgatattc gactctccag gggttcaggat atcaagtatg agccccagct 420
ccttgccagt gatgatgcta gactactaca actggaaacc cagggaaatc aaagttgcta 480
caactatctg tataggatga aagctctgga tggcattcgt acctctgaga tccattttca 540
ttctgaaggc cggcatcccc gtctcttaat gggaagaat tttccgcttc taccttgctg 600
gatcttcgca aacactagt                                     619

<210> 477
<211> 674
<212> DNA
<213> Homo sapiens

<400> 477
gaattcgaa cccctcgggg tgttcgactg ctagagccga gcgaagcgat gcctaaatca 60
aaggaaactt tttcttcaag ctcttctggc agtgattctg acagtgagggt tgacaaaaaa 120
ttaaaggagg aaaaagcaat tgctccagaa aaacctgtaa agaaacaaaa gacaggtgag 180
acttcgagag cccgtgcctc ttctaaacag agcagcagca gcagagatga taacatgttt 240
cagattggga aaatgaggtg cgttagtggt cgcgatttta aaggcaaaat gctaatgtat 300
attagagaaat attggatgga tcttgaaggt gaaatgaaac cagggaagaa aggtatttct 360
ttaaatccag aacaatggag ccagctgaag gaacagattt ctgacattga tgatgcagta 420
agaaaactgt aaaattcgag ccatataaat aaacctgtga ctgttctagt tgttttaact 480
tgtcttttta cattggcttt tgttttctaa atgtttctca agctattgta tgtttggatt 540
gcagaagaat ttgtaagatg aatacttttt tttaatgtgc attattaaaa atattgagtg 600
aagctaattg tcaactttat taaggattac ttgtctgccc caccctatgt gtaaaataaa 660
atcaagtaat acat                                     674

<210> 478
<211> 663
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 41, 639
<223> n = A,T,C or G

<400> 478
tttttttaag ctttcacaat tttttataaa tctagtctta nttgaacaat atctgatgtt 60
acagacatca tcccatgggt aacatgttta ataagtgaag gcaagtcaga catctcatct 120
aagtcattat tttctgcaga ctaagcaata actacacaga acactatggg taaacaacaa 180
ctgctcagtt ttctacacaa gccatgttgt tatcacaatt agatctgcta atattgaata 240
cagtagattc ggtgatgtga gttctcatat aagtatctta ttgagataac attttgacag 300
tttcactgac ttctcaaaata agcataccat aatcaaaaga aagaataaag agtgaagtaa 360
aaactgaaca tgaagagattc aagttattaa aggaaaatga agtaataaaa aagagtgaag 420
aacctattgg ggtggaagtc aaacaagcct agacatttga ttggaagaga aaagatcaaa 480
tatgaagttc acaaaccaaa agtttataaa ctcaatgcaa tacaaaatct ttttattgta 540
aaagctgagt tgaaaactaa agatctataa aaactgttac ttttggcctt aaacagtacc 600

```

aactcttatg atcaaaaaag gccacacagt taagattgna ttacttgatt ttattttaca 660
cta 663

<210> 479

<211> 673

<212> DNA

<213> Homo sapiens

<400> 479

gaattcgaac cccttcgaat gaagaactct ccagggatct agtgaataaa ctaaaacct 60
acatgagcct cctgactcag tgcgcgtccc tgcagcgag catgcacaac gccatcaagt 120
tccttaacaa ggaatcacc agtgtgggca gtcccaagcg ggaagaggag gccaaagtcag 180
aaccttcgagc agccattgat cggatgtgct aagagaagat tgtgctagca gctcaggcaa 240
tttcacgctt tgcttaccag aagatcagta atggagatgt gatcctggta tatggatgct 300
catctctggt atcacgaatt cttcaggagg cttggacaga gggccggcgg ttctgggttg 360
tagtggtgga cagccggaca tggctggaag gaaggcacac actacgttct ctagtccatg 420
ctggtgtccc agcctcctac ctgctgattc ctgcagctc ctatgtgctc coagagggtt 480
ccaaggtgct attgggagct catgcactct tggccaacgg gtctgtgatg tcacgggtag 540
ggacagcaca gttagccctg gtggctcgag ccataatgt accagtgctg gtttgctgtg 600
aaacatacaa gttctgtgag cgtgtgcaga ctgatgcctt ttgtctctaa tgagctagat 660
gacctgatg atc 673

<210> 480

<211> 203

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 75, 84, 87, 89, 143, 183

<223> n = A,T,C or G

<400> 480

gaattcgaac cccttcgggg ggaggaagag gaggtggagg aggagggtga tgttgatagt 60
gatgaagaag aggangaaga tngangananc tcctcggagg gcttgaggcc tgaggactgg 120
gccacgggag tagtgaggcc cngtggcagc ttccgggctt atgggtgccca ggaggaagcc 180
cangtcccta ctctgcattt cct 203

<210> 481

<211> 482

<212> DNA

<213> Homo sapiens

<400> 481

ccagacgctg cccatggagg cgtccagcga gccgcgctg gatgctaagt ccgatgtcac 60
caaccagctt gtatagtttc agtggaaact gggataggct gtgagctcag acacttgacg 120
atctcttaag tatccttaag ttgcagtgat gctaaaagt gcagatcatt caggccaagt 180
aaagaccaag tgctttgaaa tgacgattcc acagtttcag aattcttaca gacagttoaa 240
ggaaattgct gcagttattg aaacggtgtg aagacggatt ctttgggtga taaattgcta 300
tcattctaaa gtcatggact tcactttcgg caacaaaact aaataaggat ggaacattta 360
ttgaatgaaa aatgcacttt tgtttttcca tttttttaaa taataaaaat cagacaaaaca 420
gaaaaaaaaa aaaaaaaggg cggccgctcg agtctagagg gcccgtttaa acccgctgat 480
ca 482

<210> 482

<211> 505

<212> DNA

<213> Homo sapiens

```

<400> 482
aaatcttta gctgccaaaga aagaagttaa gactctcagt gctgagagag actgaatcca 60
cctagggtgat aaggtgactg gaccagtaga accctttgtg tgctgggggg ttttatgcct 120
tgtagaaccc agtgtgagca agatttgggt accctacata cattcagtag ccaggaaagg 180
gtgattggat tgccagactc tgctgtctgg caaaaggatg agctgtagaa gctgaagtcc 240
taggtgtagat atataaagaa gacaaattag gtggcacott ctgactgtg caatgcatgg 300
atttggattt gaatttttcc tctaattatt ctagggaac cctgggctaa gaaaccaatg 360
taaaacctga tgaggtagtc tgtagtacac ctgggtagag gtgagggcaa ccacaaaatt 420
attcttaaga atgcctccca ggcgcctgga agatgaaact ttcttggtgaa tatgagctca 480
tggtaaaaat ttaggtcgga tgcag
505

```

```

<210> 483
<211> 501
<212> DNA
<213> Homo sapiens

```

```

<400> 483
tgcaaaaagg taacaaattc ataactggaa agcaagaga agaacaagta tgatttggat 60
gataaagcat tgttttaagt gtgaaaactt cacagatcac taatgtttct agaggttaac 120
ttcaagtggtg caagctgggtg ttttttaggta gtcagtgggc tagttcctaa agccacagta 180
taggatctgt taaactgaat gtctgttgaa agtttgtttt agctgcttgg aggcttccct 240
ttaagacaaa ctgtatgtga ttaagttgtt ttgaggggaa tgaagaacct gatgtacccc 300
ctggccagat aactgcctga tttctcagat attattttctc tgggaaacct tctacatagc 360
acaggagctt aagagtgga tttctctctc gccttaattt ccagagatta tttctgtact 420
gagaatcctg gaactactat gctaggaat ttaaagctgc atgtctctgc ttgttttcat 480
ttaattattg tgaataccta g
501

```

```

<210> 484
<211> 501
<212> DNA
<213> Homo sapiens

```

```

<400> 484
gcactaagac caccttctat gaggagcagg gtgactacta cagccagtag atccgggcct 60
gcttgagcca cctggccccc gactccaaga gttctgggaa ggggaagaag cagccttctc 120
ttcaatacac tgcctgtcag ctctcggaat aggggtctct ggtggaattt gaagatcttc 180
ccgcctctca cttcagaaac gtcatctttg acatcacgcc gggagatgag gcaggaaagt 240
ttgaagttaa tgccaagtct ctgggtgtgg acatggagcg atttcagctt cactatcagg 300
atctctcgca gctccagtat gaggggtgtg ctgtcatgaa actcttcaac aaggccaagg 360
tcaatgtcaa cttctctatc ttctcctcca acaagaagtt tttgcggaag tgacagaggc 420
aaagggtgct acccaagccc ctcttacctc tctgtgatgt ttctttaaca ctaactcacc 480
actgtgcttc cctgcagaca c
501

```

```

<210> 485
<211> 504
<212> DNA
<213> Homo sapiens

```

```

<400> 485
cgcactcttg gaacattott tctttcaaca acccaaggca tgcttctatc tctcttttgag 60
gtttccctct aagtgttacc tctaagatag gcttttctct gacactctat gatggaacct 120
ctaggatttt ctctattggt ttatgcttat ttgatattt gattcctaga atttttaata 180
cattatatat catataaaat aaacctttaa atattgaaat gaaaagataa aaatacatatc 240
actaagttaa taggtcaaaa gtgtgagatc atcttgaaca ttatcttgaa gagaagatac 300
caatttacct tctgtctaga tcatggtgta cgtatcacac aactgcttag aataaactctc 360
cttttctgaa ccatttatct actacttttg tottccaatt aaatattagc ctgacttcaa 420
atatcatata ttagtttctt ttgtttatgt aattgaatta tataacatat attcattaga 480

```

gcctatTTTT tttaaaattt ttgt

504

<210> 486

<211> 501

<212> DNA

<213> Homo sapiens

<400> 486

```

gagaggTcaC tatggcgCct ttctgcagga cGagtgggac ctgctccaaa gaatgatttt 60
gctggcccaC gagaaactct ctgttcctgt cactgcaaaa atccgtgtct tcccgagat 120
tgacaagacc gtgaggtagc cccagatgct ggagaaggcc ggctgccagt tgcTgacggt 180
gcacggagcG accaaggagc agaaggggcc cctgtcgggt gcagcgctct gggagcatat 240
caaggctgtg cggaaggctg tggccatccc tgtgtttgct aacgggaaca tccagtgcct 300
gcaggacgtg gagcgctgcc tccgggacac ggggtgtcag ggcgtcatga gcgcagagg 360
caacctgcac aaacccgcgc tgttcgaggg ccggagccct gccgtgtggg agctggccga 420
ggagtatctg gacatcgtgc gggagcaccC ctgccccctg tccctacgtc gggcccaact 480
cttcaagctg tggcaccaca c

```

501

<210> 487

<211> 501

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 462

<223> n = A,T,C or G

<400> 487

```

accattattt agcagcaaaa aggaagttt gaagacatta acaggaactg gttaattgta 60
gtccctatct gaaaaggaca gattgaatgc agccaaatta tggcaaaaga atcagtagga 120
caacccttat aaagggtagt tcttttaaaa aaaatttctt tattggcaac aacataaaag 180
atatgaaaga atcactcata atttatcagc ataacatagc tattctcatt ttgcaattg 240
actttttagt tcttgaccac atgtaatttt tattagtgtg gattaactga ttttgtgctt 300
tttttaaaaa aaaaaaaac ctagaataag acattttgtt tgttaattat tataaatgac 360
tgtattcatt ctgtttatgt accataattt tggatgttcc tacgatgtta aacttttagg 420
ttgtttttaa ttgtttgttc ttatagacaa ctctgtaagg gnttttaact gcttttatca 480
ggagaatgtc aaagaagtcc t

```

501

<210> 488

<211> 148

<212> DNA

<213> Homo sapiens

<400> 488

```

attctaagga tgaatggct acagagcaaa ctgcagctga gagaaaactg cttggagttt 60
ggacagaggt ggaattgagt gtccacaggc cagctgagga ggtggtagcc agcactctat 120
gaacccttcg ctcaagtcag cctggagt

```

148

<210> 489

<211> 501

<212> DNA

<213> Homo sapiens

<400> 489

```

gctgtggatt cccctccaag tggaggagga tgggcaggct ggggacctg gggcaaatct 60
ctgctgtcgt cagcatctgc cacagtaggt catggattga cggcagctca ggaanaagca 120
ggagcaactc tacgatttca tgtgttaaat tctggatcct ctgaaggagc ccaaccaaat 180

```

```

actgaaaacg  gagtcctctga  aataacacagat  gcagccacag  atcaggggccc  tgcagaaaagc  240
ccaccacactt  ccctctcatc  agcctctcgg  ggtatgctgt  ctgccatcac  caatgtgggt  300
caaaaacacag  gtaaaagtgt  cttaactgga  ggcttggatg  cgttgggaatt  catcggaag  360
aaaaccatga  atgtcctctg  agaaagtgc  ccgggcttta  agcggaccaa  gacgctcatg  420
gagagaactg  ttctcctgtc  tcagatgtta  aggggaagcta  aggagaagga  gaagcagaga  480
ctggcacagc  agctcacgat  g

```

<210> 490

<211> 482

<212> DNA

<213> Homo sapiens

<400> 490

```

attgcaaaact  gaaagtggac  aaagacttaa  ggtaaacctg  ctctcatgg  tgggaatgctt  60
ccaaatgctg  gaaggaggac  tttagggcag  agttcactaa  ggaggcttgt  gcttatagat  120
cagtgggcct  gaaagaagtt  tctctaggtt  ctggttgtgt  gctgtacag  gtgtaggtag  180
taataatact  ctgtcagcc  acagtgaagc  cccaagctag  ccgggatagg  ggactgacct  240
tgtacaggca  gcattggaga  actaagacag  agtgtcctgc  ccaagtgtatg  gcaactgggga  300
gcagtcaact  aggtttatct  ccaccagggc  ccaagaaaaa  aagaaatgag  gcaacctaaa  360
attccatcaa  gatagatacc  aatatccaa  gtgcttggtc  tttagcgtgt  gggaccacag  420
ttaaggctct  tgggtgggaa  gtgggaggtg  ttttcagcat  gagatagggt  tcaggctgtg  480
aa

```

<210> 491

<211> 483

<212> DNA

<213> Homo sapiens

<400> 491

```

cgctctccc  cgtgatccct  ctctcgttaa  ccgtaggcgc  ttttcgtgaa  ggcccgggtt  60
tttacagcc  ttctgctttc  taaccacgaa  cagtgtcctg  tcgttcgcag  ggccagcaag  120
gagagcccc  ccccccccg  ccccccgcg  ccgcgccgcc  gccgctttg  gatccccgg  180
actccgccg  gcccgccctc  ccaggcagat  gcgccgctgc  gcttctccg  caatctgtcc  240
tggctattcc  ccgagctccc  cggcctcccc  gcgcgggtgc  gggccgcggg  cagctcgggc  300
ttcgaggcgc  tcgaggtggc  ctggccgtac  gcggagacgc  ctgagggcgt  ggcgcgcgcc  360
gcgcgagaag  cggggctgcg  gcttgtactg  atcaacacgc  ccccgggaga  ccaagagaag  420
ggggaaatgg  ggctgggggc  cgtcccccgg  agacaggcgg  ccttcgcaga  gggactggag  480
cag

```

<210> 492

<211> 266

<212> DNA

<213> Homo sapiens

<400> 492

```

acctcatctg  ctttgccttg  gcatgtgagc  cttgcctaag  ggggcatatc  tgggtcccta  60
gaaggcccta  gatgtggggc  ttctagatta  cccctcctc  ctgcacatcc  cgcacatgac  120
aatggaccaa  atgtgccaca  cgctcgctct  tttttacacc  cagtgcctct  gactctgtcc  180
ccatggcgtg  gtctccaaag  ctctttccat  tgcccaggga  gggaagggtc  tgagcaataa  240
agttttctag  atcaatcaaa  aaaaaa

```

<210> 493

<211> 483

<212> DNA

<213> Homo sapiens

<400> 493

```

gocgctcgcg  ctaggagagc  gggcttcggg  cacttgacat  ggcggcagtg  gggcgactg  60

```

```

cagcagcgaa ggggaatggg ggcggcggtg gcagggcgg ggcgggggac gccagcgga 120
cgcggaaaga gaagggcccg gggccctggg ccacggcgta cctgggtcgc tacaatgtgg 180
tgatgacagc cgggtgctgg gttatagcgg ttggtctggt ccgagcatac ctggctaagg 240
gtagctacca tagcctttat tattcaattg aaaaaccttt gaaattcttt caaactggag 300
ccttattgga gattttacat tgtgctatag gaattgttcc atctctctgt gtccctgactt 360
ccttcacagt gatgtcaaga gtttttctaa tatgggcagt aacacatagc gtcaaagagg 420
tacagagtga agacagtgct ctctctgttg ttattgcagt gacgatcacg gaaatcatcc 480
ggt

```

```

<210> 494
<211> 301
<212> DNA
<213> Homo sapiens

```

```

<400> 494
gtggctattt tcatggaata tcttttatoa gcotttcagt ttaattttat ttgtgtcttt 60
ggatctaaag tcaagtttgt ttggacaatg ttagtattga tcatgatttt aaaaaatcta 120
ttctgaagct ggggtgttca cacctgtaac ccacgaactt tgggaggatc tcttgagccc 180
aggagttgga gactagcctg gtctacaaag tgagactctg tttctacaaa aaaataaaat 240
aaatagttgg gtgtggtggt atgcgcttgt ggttcacagt acttgggagg atgaggaggg 300
a
301

```

```

<210> 495
<211> 496
<212> DNA
<213> Homo sapiens

```

```

<400> 495
cgaagtgaag gctagggggc cgtacggccc cgcctgactg togcacgaag ctccctggcg 60
gccccaccgc agccgccgct cctgaggcgg cgggaggccc gcgccccgcg gctgcgtgtg 120
cgtgggagcg cgcgagcgaa cgcggggcgg gagcggccga gccgcgtgaag aggagctggg 180
cgcggccgcg ccggccgcgg tcggcccgcg gatgcctccc gcccggtott ccccgggccc 240
ggccccctgg gagatgcctg gtggggaggga ttggtcagc caccocgtgg gaatcgtgca 300
gggattcttc gccaaaaatg gagttaatcc tgactggggg aagaagatga ttgagtattt 360
taaggaaaaa ctgaagggaa ataatgctcc taagtgggta ccatacactga accaagtctc 420
ccttcattat ttgaaacctc atagttttgt gaaatttgtt tgcattgatc aggatatgtt 480
tgaccctgag tttttac
496

```

```

<210> 496
<211> 494
<212> DNA
<213> Homo sapiens

```

```

<400> 496
aaactatata aaaaagtatt tgtacagaac tttattttag ctctttttta aaaaatgattt 60
gcattggttag aaaaaggcga ggacagccag gggaggggag ggcctctagg gaactttgca 120
ctttctatac ctttttaacta tgcactgccc tattgattct acacocaata atgatatatac 180
ttgaacccat ctgtaagaaa ctgcttcgga aattcaattt tgtgtatgta aataacacaa 240
catagaacaa ggaagggaaa aaagtctgca gtaatgcacg tatttttttt ctctcctggt 300
tattttcgtt tttgctttaa gtccctttat ttttaattcc cttttttttt tctcttttgg 360
gttttgggtc cttttgggtt tatgggtgoc ctgatactcc agcagagatc agaaggctac 420
agatccatcc tatccatccg ttatgtggct ttgcatcccc agcttggagt gtctttacaa 480
agataataac agtt
494

```

```

<210> 497
<211> 184
<212> DNA
<213> Homo sapiens

```



```

<400> 497
gcgcgcgcgc gctggcaggg tgtgcgtgag tttgggtggc gccgcgtgtg cagagacgcc 60
atgtaccggc tcctgtcagc agtgaactgcc cgggctgcc ccccccggg cttggcctca 120
agctgcggag gacgcggggg ccatcagcgc gccgggctgc gcctctcgg ccacggctgg 180
gtcg 184

<210> 498
<211> 471
<212> DNA
<213> Homo sapiens

<400> 498
tcttactaca aatggagatg gctattatga aacagcatga gcatgagcct tttatctttt 60
atacttagtg atatactttg cttgaaaatc actcagcaaa gtagttcaca tgaatgtgat 120
catatttgaa gtgtggtttt tctcaaaatc attgacttta aggagctcat tctgaacaa 180
aaagggttgc tctgtggaaa aatcaatcac tgccaggatt ctttcatttc tgtactattt 240
tgtataaattg aattttttca cttctctcac accagcaagt gttttacagg tgccttggat 300
taaaacaaaa ttgattttta aattttttat taagtcaattg tgtctatgat gccactttta 360
aaaggaaaaat gcaattgcgt aatggcttat atccttattt aatgtaccta tttgtgttct 420
aataattgttt tgaatgtttt attcagctta aaactttacc atgaagctcat a 471

<210> 499
<211> 478
<212> DNA
<213> Homo sapiens

<400> 499
aggtgggaaa agcgcaggag gacgccaggg agggaggcggc ggcggcgggc gggaagtga 60
aggtctcgca aagttcagcg gcggctgcgg gcgcgcagcc ccgggctagc ggcagacgag 120
cccgcacggc cgctccggcg gccgcgcgag ccaggccggc tatggtcccg gggctcccg 180
cgcccccgag gtgcocggga ccgcocaggc cggtgccgca gggtcacccc acctcccg 240
gcggctcccg ccctgggtcc ccagctgcgg gcgaccgctg accgagcccg gcgcocagg 300
aggaggaaga aaccaggtcc ccgttccttc ccgaggacgg cggcgcttca tccgcagcc 360
cagaggtctc ggtccctcc ccgacccgcc cggcccggtc gctcccggtc tcccccggc 420
atggggagct gcgcgcgggt gctgctgctc tggggctgca cgggtgtgga cgcaagg 478

<210> 500
<211> 495
<212> DNA
<213> Homo sapiens

<400> 500
gggggcttct ggcttgggtg ggaccaggag ggggcagaag gcacctgtc gtggtgggc 60
accgtctctc gcgtgctggc tagcctctgt gtctcgtca acccatcta caccacgaag 120
gtgctccggc cgggtggagc cagcatctgg ccgctgaatt tctacaacaa cgtcaacgc 180
gtgctctctc tcctgccccg gctcctgctg ctccggggagc ttcaggccctc gctgacttt 240
gccacgtggt gcagtgccca cttctggggg atgatgacgc tgggcggcct gtttggcttt 300
gccatcggtc acgtgacagg actgcagatc aagttcacca gtccgctgac ccacaatgtg 360
tcgggcacgg ccaaggcctg tgcccagaca gtgctggcgg tgtctacta cgaggagacc 420
aagagcttcc tctggtggac gagcaacatg atggtgctgg gcggctcctc cgctacacc 480
tgggtcaggg gctgg 495

<210> 501
<211> 494
<212> DNA
<213> Homo sapiens

```

<400> 501
 ctgcgggtgtg gttgggtgtg agatgacgac cttagtgtcg gataatggag cttacaacgc 60
 caaaatcggt acagccatga aaatgtgtcg gttattccta attgtcagtt ccggccaata 120
 acagcagctc ttaaaaattt tactgccaac cagatagatg aataaaaaga ccctctctgga 180
 ctctttttaca tctctccctt tcaaaagggc taacttggta attgggagt ttagagagaaa 240
 gtttgggatt accttttttg aaaagaaatg tatcagggtt attttttaga tactaatatt 300
 attatcactg aacctactt taacttcaat tcaattcaag aatcaatgaa tgaatttcta 360
 tttgaagaat accagtttca agcagtaata agagttaatt ctggggctct cagtgcacat 420
 aggtatttcc gagataatcc ttccgaatta tgcgtgatca ttgttgatag tggatattcc 480
 tttacacata tagt 494

<210> 502

<211> 479

<212> DNA

<213> Homo sapiens

<400> 502
 ttgtataatg ctgaatgtgt ccagagggac aagtttgcag aaacctatat tggatatatta 60
 aagaataaat aaaaataaaa agcacttttag gttattttat ctttaaccgg attgctgcaa 120
 ttctttttgt tgtatatatat acatatatat actttccaca aagttttatt ttttgcacag 180
 aataaaaagt taaattgagg tgtgaaaaga aaagcactta ccttgggtgca atatgtgtag 240
 cttgatggtc gttgtcccat gtggccctcg cctggcagcg tttttccgct caatcagccc 300
 tgtgctgtga gattgtccat agggaaacac tattatgcat tctcagcaac cgctcaatct 360
 atgcaagcct tccctgtgtg ccccagggcg cccctcagg ctctctgaag aactgctgtg 420
 ggtcctgttt tctgtgact gttgagggccc tttttcactca cttcttggct tctcggcat 479

<210> 503

<211> 451

<212> DNA

<213> Homo sapiens

<400> 503
 ttgtggggcg ggtgggtttc ctaatctggt ttctgtctgcc tggttcactct gtgtgcgatg 60
 gctccggact cggatccctt ccttgaaggc ccgtctctaa agctgctacc cttagacgct 120
 agagacgcgg gcacccagcg ctgccgcctg ggcccgcccg ccctccacgc cctggggcgcg 180
 cgcttgggct cggcagtgaa gatctcgcta ccgcagcgcg gctcctgcct ctgcaactgcc 240
 tggcctcggc gggacggagc ggacggcttt gtgcagctgg acccgctgtg cgcgagccgc 300
 gggcgcgcgg tcggggcgctc gagatcccg aggagctca ccttgaatcg cctcctccta 360
 gtgcctgtc gcgccctgct gcgcgtcgcc gtgtggcggg tgttgcgaga gcgggcagcg 420
 gcgcccggtg cccggaatac agccgcgggtg c 451

<210> 504

<211> 462

<212> DNA

<213> Homo sapiens

<400> 504
 cagtggggaa ggggagagat gccaggtgtg tcagtatcct gactttcaga ggcctttttt 60
 tgtttttttt aattttttgt agattgatat taataactca tgtggaggaa ctcaaggaa 120
 gttttagaaga ccaaaagtcc ccaatgacag gaacaaaagc aaccaatttt taactttctc 180
 ttctcattcc tgttttcatt gatttccacc atgtagtctt tttgctcagg aagtctttgg 240
 ggaaatttaag gatcttttga gctctgaaat aggtgatcag gttagtgggt tctgtcagct 300
 gtctaaaggg ttggaaaatg aactactcaa gatagtcacg aaaatactga aagtttgatt 360
 ttttttcca tatttgaatt aattttttct gtttgactgg aaggggtttt tgtataacta 420
 aaacctcagc gcataaagg gattttaaaag gaggacatga tt 462

<210> 505

<211> 136

```

<212> DNA
<213> Homo sapiens

<400> 505
tcgattatat cacacatttc agttgggaggt ttgtctcaac ctgtgaccac catctgagtt 60
agctgggcaga cttctaggag gtccctgtctg aggtagaata agaaatggct tccctccttc 120
tcccataaaa aaaaaa 136

<210> 506
<211> 466
<212> DNA
<213> Homo sapiens

<400> 506
gggggtacaga gacagcagcc tgcggagcgt tctaggcagg acagggcagc aaacctgaca 60
tgcggagcgt ggggcagggg taatggggcc agggggtaat ggcaggtgag gccatggcct 120
agagggttgc catgcttggt gcaggggagg agagggccag gtgtggctcg agtggcagca 180
ggagtcaagt tggctgtgcc cagtgggatg ttgtcagaga atggacctgg ctgctgggaa 240
aggtgattgt gttttgtctga gccacactgg actcttctct gaccagcaag cacattcttg 300
agatgcgggg cagagacgag gcctccgtga gaacctttga ggtgtgaggg ccttgatctg 360
gggtgcagcc tccagcttcc tgcttacaga gcaggacctg caggagctcg ctgactgcct 420
gcacagtgga aggaagacct gtttctttta ctttctctga ggagaa 466

<210> 507
<211> 101
<212> DNA
<213> Homo sapiens

<400> 507
atgatttaaat tttttaaact gtagcaattg gatagataat tttatttgaa attttacaca 60
ctgaaagctc taaataaaca gatacttca cattcaaaaa a 101

<210> 508
<211> 242
<212> DNA
<213> Homo sapiens

<400> 508
gacaatgcaa gtaacctcaa atgagagtgt ggaaggcggg gaaagcagcc agagcttcat 60
tgttatgaaa aaagagtga atgtgctctg ttgaagagtt gaagaatgaa caaaggatat 120
ttagtttgaa tggaagctca gtaatgagaa atgagaatgg ttgagttctt aaaagaagca 180
agtaaaagaag aggatttgtg ggctactatt ctcatcagtt gaatctcatw ccaccttgc 240
ct 242

<210> 509
<211> 101
<212> DNA
<213> Homo sapiens

<400> 509
cctttgctcc ctttttccaa tttcttattg catatcttcc tgtattacaa caaaatgata 60
tgcaataaga aattggaaaa agggagcaaa ggcgaagggg y 101

<210> 510
<211> 461
<212> DNA
<213> Homo sapiens

```

```

<400> 510
gcaggttcgg gaccatgagt tggattcctt ttaagattgg gcagcccaag aaacagattg 60
tgcccaaaac agtggagaga gactttgaaa gggagtatgg aaaacttcaag caccatgtca 120
aaatctgcgc tgaagatata cttggactta ctctccaatc cctctgttga gcaagaccag 180
gaccttctga acatgggtgac ggccttgagc acggccatga agcggatgga tgccttcaat 240
caggaaaagg tgaaccagat ccagaagact gtgacgcagc ccttaaaaaa gtctggcagt 300
gtcttccgca gctcaacatg ggctgtgaag aggcgggaac aggccttgca ggactacagg 360
aggctgcagg ccaagctgga gaagtatgag gaaaaggaga agacggggcc agtgcctggcc 420
aagctccacc aggcacgaga ggagctgcgg cctgtgcggg a 461

```

```

<210> 511
<211> 461
<212> DNA
<213> Homo sapiens

```

```

<400> 511
ggctttctga tatttctaaa attgacctgg aatcaacccat tgacatgtcc tgtgctaaat 60
atgaattcac tgaatccctg ctgtgccatg atgatgagct ggaagggcgc cggattgcct 120
tcactcctga cctggttccct cctctgggaca ggagcatggg tggtaacctg gacctgtaca 180
gcattgatga acactttcag ccgaagcaga ttgtcaagtc tcttatccct tctgtgaaaca 240
aactggtttt ctttgaagta tctcctgtgt cctttcacc a ggtgtctgaa gtgctgtctg 300
aagaaaagtc acgtttgtct ataagtggct gggttcatgg tccatcattg actcggccct 360
ccaactactt tgaacccccc atacctcgga gccctcacat ccacaaagat catgagattt 420
tgtatgattg gatcaaccct acttatctgg acatggatta c 461

```

```

<210> 512
<211> 686
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 604, 649, 664
<223> n = A,T,C or G

```

```

<400> 512
actgacctga aggagaccta agagtccctt ccccttttga gtttgaatca tagccttgat 60
gtggtctctt gttttatgtc cttgttcccta atgtaaaaagt gcttaactgc ttcttggttg 120
tattgggtag cattgggata agattttaac tgggtattct tgaattgctt ttacaataaa 180
ccaattttat aatcttttaa tttatcaact ttttacattt gtgttatatt cagtacagggc 240
ttcttagatc taactatggt tgatggagca cattgatttg gagtttcaga tcttccaaag 300
cactatttgt tgtaataact tttctaaatg tagtgccctt aaaggaaaaa tgaacacagg 360
gaagtgactt tgctacaaat aatgttgctg tgtaagtat tcatattaaa tacatgcctt 420
ctatatggaa catggcgaga agactgaaaa ataacagtaa ttaattgtgt aattcagaat 480
tcataccaat cagtgttgaa actcaaacat tgcaaaaagt ggtggcaata ttcagtgcct 540
aacacttttc tagcgttggt acctgcgcgc gaccacgctg gaattccgga agggcctgtc 600
ctangatcca gtgtgggtga attctgcaga tatccagcac agtggcggnn gctcagatct 660
aaanggcccg tttaacccgc tgatca 686

```

```

<210> 513
<211> 429
<212> DNA
<213> Homo sapiens

```

```

<400> 513
catgaacgac accgtaacta tccgcactag aaagttcatg accaaccgac tacttcagag 60
gaaacaatat gtcattgatg tccttcaccc cggaaggcgc acagtgccta agacagaaat 120
tcgggaaaaa ctagccaaaa tgtacaagac cacaccggat gtcactcttg tatttggatt 180

```

```

cagaactcat tttggtgggt gcaagacaac tggctttggc atgatttatg attccctgga 240
ttatgcaaaag aaaaatgaac ccaaacatag acttgcaaga catggcctgt atgagaagaa 300
aaagacctca agaaagcaac gaaaggaacg caagaacaga atgaagaagag tcaggggggac 360
tgcaaaaggcc aatgttgggt ctggcaaaaa gccgaaggag taaaggtgct gcaatgatgt 420
tagctgtgg

```

<210> 514

<211> 346

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 27

<223> n = A,T,C or G

<400> 514

```

aaaactttct ctacttattt agttttnttc totgagttca accgctgctg gattcggttg 60
gcataacttt gtgccatgga gttaatgata gataggatga agtaacacac catgacaacg 120
accaactttt caaacatcca ggacaaccag ttttctccct gtggtgtgoc catttcgctt 180
tttgggtgaa gctttctccg ttgagcctcc aggtactcct gaaatggcct ctgcagagat 240
ggacctatgc cggggacagc actggaagca gggtacagta gcccaaaaga aaagacacat 300
ttgggaagaa aagcaggaaa aacgttaagc aaaaatgtact taccac

```

<210> 515

<211> 549

<212> DNA

<213> Homo sapiens

<400> 515

```

ctgaccagga ctgtgaagat gcggttcgc tgcaagatg gggagacatt ttccaggaa 60
gtcatgatga tccagtcctg caaatgcaac tacaaactgc cgcattgcaa tgaagcagcg 120
tttccctctc acaggtctgt caatgacatt cacaatttta gggactaaat gctacctggg 180
tttccagggc acacctagac aaacaaggga gaagagtgtc agaattcaga tcatggagaa 240
aatggggcgg ggtggtgtgg gtgatggaac tcattgtaga aagggaagcct tgcctattct 300
tgaggagcat taaggtattt cgaaactgcc aagggtgctg gtgcggatgg acactaatcg 360
agccacgatt ggagaatact ttgcttcata gtattggagc acatgttact gcttcatttt 420
ggagcttggg gagttgatga ctttctgttt tctgtttgta aattatttgc taagcatatt 480
ttctctagcg ttttttcctt ttgggggttt acagtcgtaa aagagataat aagattagtt 540
ggacagttt

```

<210> 516

<211> 382

<212> DNA

<213> Homo sapiens

<400> 516

```

ccgctcgtca gactccagca gccaaagatg tgaagcagat cgagagcaag actcgttttc 60
aggaagcctt ggacgtctga ggtgataaac ttgtagtagt tgacttctca gccacgtggt 120
gtgggctctg caaatgatc aagcctttct ttcattccct ctctgaaaag tattccaacg 180
tgatactcct tgaagtagat ttggatgact gtgagtagt tgccctcagag tgtgaagtca 240
aatgcatgcc aacattccag ttttttaaga agggacaaaa ggtgggtgaa ttttctggag 300
ccaataagga aaagottgaa gccaccatta atgaattagt ctaaatcatgt tttctgaaa 360
tataaccagc cattggctat tt

```

<210> 517

<211> 323

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 26

<223> n = A,T,C or G

<400> 517

```
acgagcgtag gacgatgctt ctcttntgtc agcctgcaac tgagtcagga ttgaatactt 60
ggaccaccagg tctggagatt gggatactgt aatgcttctt tgttattata acataaaaagc 120
accactgttco tgttcatttc ctagctgttc taattaagaa aactattaaag atgagcaacc 180
acatttagaaa atgtttattg acaggtcttt tcaataaatg cttttctaat taatagccaa 240
agatttcata tctaaacttg taaccagaat tatacagtaa gttgacacca cttagattta 300
aaggcagaca gttttgcttt agt 323
```

<210> 518

<211> 605

<212> DNA

<213> Homo sapiens

<400> 518

```
ctggatcacg aggctggggc cccacactgt ggaacaaacc cacagcttgc tcaggatcca 60
tcccagaatc agcagacatc aaatccaaag cacagttcag aagatgtgaa gccaaaaacc 120
ctccccgtgg ataaaagcat taaccatcag atcgagtctc ccagtgaagc gcggaagtct 180
ataagtggaa agaagctgtg ctcttctgtg gggcttcctt tgggtaaaag agctgcaatg 240
atcatcgaga cctcaatct ctattttcac atccagtgtt tcagggttgg aatttgtaaa 300
ggccagcttg gagatgcagt gagtgggacg gatgttagga ttcgaaatgg tctcctgaac 360
tgtaatgatt gctacatcgc atccagaagt gccgggcagc ctacaacatt gtgacacggc 420
tttcaagctt ccggtacact caccatttct ttactgagag tgtccctcgg caactgttta 480
acaaaatccc aagctcaggc gcttctcagc atttaacctaa tttctgaaag gctcttctga 540
aaggtggtat ctgttcttct gtagcacagt gtttatgttt ttctctgttta ttggtttggt 600
ttttt 605
```

<210> 519

<211> 462

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 13, 48, 77, 99, 103, 137, 140, 171, 249, 298, 318, 320, 409, 437

<223> n = A,T,C or G

<400> 519

```
ctgctgggtca tgnocctggc agtcttttgt gcaaaataag gcatattnga gctccacatt 60
aaccttgccg caggcgngcta cttgctctgc atgctgtanc agngcacgtc ctcttcccc 120
ttggtggtgt agcctngan agcgtgccca tacttatcca cacaccagca naagccccgc 180
ttcctgcctt tggaggggcg acactgcttt ttcttataaa atcccttctt gtcacagttg 240
ggaatgtgna caccocctgg actcagcaca ttgagggaact tcaagtgtat cagtgtgnot 300
tccatttctc tacggcangn accatattct gtctcccgct tggactcgga ggagaagttc 360
tgggtatctg tgctctgaga ctgtagtcoa actttgtagc gctgctgnc tttagcatgc 420
cctttcttga tgatgantat ctttgaatgg aggggggtgga ac 462
```

<210> 520

<211> 565

<212> DNA

<213> Homo sapiens

```

<400> 520
actcgttaata  aatatgcctc  cggaacaacg  ataaaaggct  acacctcgtc  aggcattccta  60
caaaaaatgct  tcaagtttta  tatactctgc  agcattttctg  tgcgggggca  gaaggggctg  120
ttgtgtatttt  tctgaagtgc  tgtgacaaaa  ggtcctttca  cattttcttg  gagcattttt  180
gaaattgcttt  aactataatt  aaacaactta  agaaaagtta  caccaagctt  taaagccatt  240
tttgcttttgc  tgtcattggt  ccttatccaa  tacagatcaa  catatcatcc  agcacagcca  300
agcaccact    gaggccaagc  agccttgtgg  gacatgggcc  ctgtcagagc  aggcctact   360
ttcagtaaaa  tacttttgag  agtccaggat  tctgtctctc  tccctcaaca  agattaatgc  420
cataaggga    gttgcaagcg  tgttagaacc  atttttaacc  tgaaagtaaa  gtgaacagaa  480
atattttttt  ttccgagacc  tctgctatgc  accataatat  taccatatca  ggggttttag  540
cttcaaaagt  gaaaaacaga  ttggt                                     565

```

<210> 521

<211> 127

<212> DNA

<213> Homo sapiens

```

<400> 521
acatggctga  cgctaccgtc  cagtgcaaaa  tcaaaaaaga  aagaagaaaa  aacccccaaag  60
aaagaggatt  ttccagtggg  gaacatgggt  ggctgattag  gcttctatta  gattacatto   120
atttcac                                     127

```

<210> 522

<211> 642

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 26, 448

<223> n = A,T,C or G

```

<400> 522
actatgtttc  gtaaatataa  taggtntggo  ccagaagacc  cactcoaatg  cctttgagat  60
taaaaaaaaa  aaaaaaaaaa  aaagaaaaat  gcaagtttct  ttcaaaaaaa  agagacattt  120
ttcctagttt  caggaatccc  ccaaatcact  ctctcatttg  cttagtttaa  agccaggaga  180
ctgataaaaag  ggctcagggt  ttgttcttta  attcattaac  taaacattct  gcttttatta  240
cagttaaaatg  gttcaagatg  taacaactag  ttttaaagggt  atttgctcat  tgggtctgggt  300
tagagacagg  aagacatatg  agcaataaaa  aaaaagattct  tttgcaattta  ccaatttagc  360
aaaaatttat  taaaactgaa  taaagtgtcg  ttctttaagt  cttgaaagac  gtaaacccaa  420
gtgcacttta  tctcatttat  cttatggngg  aaacacagga  acaaatctct  taagagactg  480
tgtttcttta  gttgagaaga  aacttcattg  agtagctgtg  atatgttoga  taactaaggaa  540
aaactaaaca  gatcaccttt  gacatgcggt  gttagtggtg  aataagagag  ggccttttat  600
tttttctgtc  atacgagtat  tgatgaagat  gatactaaat  gc                                     642

```

<210> 523

<211> 244

<212> DNA

<213> Homo sapiens

```

<400> 523
ctgaaggagc  tgatccagaa  ggagctcacc  attggctcga  agctgcagga  tgcgtgaaatt  60
gcaaggctga  tgggaagact  ggaccggaac  aggtgaactt  ccaggagtat  120
gtcaccttcc  tgggggcctt  ggctttgatc  tacaatgaag  cctcgaagg  ctgaaaataa  180
atagggaaga  tggggacacc  ctctgggggt  cctctctgag  tcaaatccag  tgggtgggtaa  240
ttgt                                     244

```

<210> 524
 <211> 407
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> misc_feature
 <222> 27, 28, 29
 <223> n = A,T,C or G

<400> 524
 acgttagtgg tgatgtcacc caccctnnng ctggggccga ggatgctctc attgtgcaat 60
 gcgtagatga ctctggccac tggggcagag gtgggtttatt tacagctctg gaaaagcgat 120
 ccgctgagcc aagaaaaata tatgagctgg ctgggaaat gaaagacctg agtttgggag 180
 gtgtcctttt atttcctgtt gatgataaag aatcaagaaa caaagggcaa gatttgttg 240
 ccttgattgt ggctcagcat cgtgatcgtt ccaatgtcct gtctggcatt aagatggcag 300
 cctagaaga gggcctgaag aagatatttt tagcagcaaa aaagaagaaa gcaagtgttc 360
 attctccacg tattggacat gccacgaaag gttttaactg gtatggt 407

<210> 525
 <211> 276
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 26
 <223> n = A,T,C or G

<400> 525
 acacaggagg caacgtgttt cacatnatag acttcacttc caactccttg gaatgttcat 60
 ttctttggct tacaggagag actagacagg aaggccaggg aatgcttagg caactaaaat 120
 gaggttgggg gtaatgctaa cgtoaccctc acagggatgg ccacggggac tgttattcgc 180
 aagctgggtt tctagacctg tttagctggaa gcattggtgag caccatttct ggaagctcag 240
 gccgtgtcgg gcttcagtc tctccaccac acaggt 276

<210> 526
 <211> 288
 <212> DNA
 <213> Homo sapiens

<400> 526
 acaattacc accactggat ttgactcaga gaggaccccc agagggtgtc tccatcttcc 60
 ctatttattt tcagcccttg agggcttcatt ttagatcaca agccaaggcc cccaggaagg 120
 tgacatactc ctggaagttc acctcctggt ccttgttccg gtccaagtct tccatcagcc 180
 ttgcaatttc agcatcctgc agcttcgagc caatggtgag ctcccttctg atcagctcct 240
 tcagctcctt cttgctcagg gtgtgcttgt caccctccct gccggagt 288

<210> 527
 <211> 412
 <212> DNA
 <213> Homo sapiens

<400> 527
 accttgagct tattgttttt attctgtatt aaatattttc aggggttttaa acactaatca 60
 caaactgaat gacttgactt caaaagcaac aaccttaag gccgtcattt cattagtatt 120
 cctcattctg catcctggct tgaaaaacag ctctgttgaa tcacagtatc agtattttca 180
 cagctaagca cattcggacc atttccgtgg ttttctatga gctgtgttca cagacctcag 240


```

cagggcatcg catggaccgc aggggggcag attcggacca ctaggcctga aatgacattt 300
cactaaaaagt ctccaaaaaca tttctaagac tactaaggcc ttttatgtaa tttcttttaa 360
tgtgtatttc ttaagaatttc aaatttgtaa taaaactatt tgtgtaaaaa aa 412

```

<210> 528

<211> 489

<212> DNA

<213> Homo sapiens

<400> 528

```

aaatgcaaaa agtcaaagta ggtaacaggt tggttaattaa agtgtcagga agactggaag 60
aggcaaaaat caagcagagt tccaataagt gtatgaaaaa aaaaatcata actgaagggt 120
taagaaaaagt ccccaaaaggc agaatcacaa tatgagcagg aggaataaaa agcttttgga 180
tataccaggc agctttctgt acgactcagg tttacaggtg aaattcctca gtttgagttc 240
agaagaattt gaacttattc cagcaaaaata cttcaatctt tttattactg cctcctcccc 300
catcttcttt ctgggcaaa ggtagcttgg attaggtcca aagctcctgg cagggggagg 360
ggccatgtgt cacagcataa cagacgggtg caagtgtctt actgagcagg ggtcaggttt 420
gcagcaactc tgataggctc acacaatggc ctccatttta cagccccctc ttggaggccc 480
actgatcag 489

```

<210> 529

<211> 631

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 25, 26

<223> n = A,T,C or G

<400> 529

```

acttgcttaa agtttttata tctgnntctt ctgctgtaaa tcttccttc ataatgaaa 60
atttttaata aatcaactat gtggaatat ataataaag gaattcacta actgtgattt 120
tcataattta gggacattct cttctagtaa goatggtgca ttatttacta gagatataat 180
atgcattaaa acaaaaaatg ttttctatca tcatagaaaa gtttgaggtc cagggataat 240
catctctgga tacattattt cctaccgtcg tggtagacac tgaacacatt tgaggcttat 300
gactggtctt ttacttaca aatattgttt agacacattt tcaaatgtca caccaatcaa 360
taataaag gaatggattt tatctatatt gacagttott tcaaccttaa gagtgaactg 420
ctacaggtaa gattcaatca catttttcag gagaagcta ttgagaccaa tatgctttgg 480
ttatctaata ggggtggaat gacttataat gctatttact ccaggcaaa agaaaaatca 540
acagacatag gatcttgatt tcaacgtagt tctctccat gtgcatttct ctgtccgttt 600
aggcaatgcc aactggtcca ccagtgaaca t 631

```

<210> 530

<211> 316

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 24, 26

<223> n = A,T,C or G

<400> 530

```

acacatttaa atgactcagc agantnaagt ttttttcaaa tatattaaga tcacaccacc 60
ttgtgtttta tcgaaagata ttcaaggaga aagatctgac tctccaaact goactgtgaga 120
ttgccacttt aaacagacct catttcaaac atgcaacaac gccactggta ataaagcttt 180
ggaatgggtg ctcatcttat tatttcaata caaacagcat agaaagcaag agaagttggg 240

```

```

aattatttctt aaatagaat ggagggtgtc atctacagca gcaactcctca ctctctgtgt 300
gccatttttta gcaagt 316

```

```

<210> 531
<211> 296
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 37, 72, 104, 130
<223> n = A,T,C or G

```

```

<400> 531
aaagtatcat ttatttgaaa aacatacatt atcatnttgt ttttgatatt tgataatgaa 60
aaaaatcttt gntgttttat ttctgaaaaa gaactgtatt tagngattat tttagatagt 120
gatattatan cattcatctg tgtgtaaatt atttcatata ggggaagagt ctgatctgta 180
cotatgggtt ttattgaaaa caacattgga tgtgcatttc tgtgatgta tgaatacatt 240
tctactttat ttgaaacat ttgccaaact aaatactgta acactgtata acattt 296

```

```

<210> 532
<211> 266
<212> DNA
<213> Homo sapiens

```

```

<400> 532
acatatgcac caaattccat tttagaagtt tccatatcat tttcatagaa aacaaagttt 60
gaaaacaagt aacattttaaa cacagcacgg tattctacca caactgaaac ttttttcttc 120
ttcttcttta caggactcaa caaaatctaa aaatgaacta tgctgtagat ttacctcatg 180
caaagatctt tatgtttatct ctgaaaaatga aaaggatggc cttttaagca cattttactg 240
ttttatacta ttatggcaac ttgtgt 266

```

```

<210> 533
<211> 289
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 25
<223> n = A,T,C or G

```

```

<400> 533
actcagaagt cacttttaat atcancgaca gaaatatctc actaatctca ctgaggcaaa 60
tttctttctt agacaaagga cctagaaatt gagcatgcaa aacatccatc cattcatctc 120
ttcaaatatc tagccaattt taccgtcaat taattccacc agaagcaaat actagaatat 180
ctagaagtag ttgtgggtaaa gaaacattta cattttaata ttgtgtaatg tcataaattt 240
ggggctaaaa taaccaccag tcaaatttga tccctttgta tgtgagggt 289

```

```

<210> 534
<211> 293
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 72, 260
<223> n = A,T,C or G

```

```

<400> 534
aaaataaaag gttctttaca agatgatacc ttaattacac tcccgcaaca cagccattat 60
tttattgtct anctccagtt atctgtattt tatgtaatgt aattgacagg atggctgctg 120
cagaatgctg gttgacacag ggattattat actgctattt ttccctgaat ttttttctt 180
tgaattccaa ctgtggacct tttatatgtg ccttcacttt agctgtttgc cttaatctct 240
acagccttgc tctccggggn ggtaataaaa atgcaaacct tggcattttt atg 293

```

```

<210> 535
<211> 408
<212> DNA
<213> Homo sapiens

```

```

<400> 535
acttgaacac ttaaagagaa aaactctaaa taaagtcata gaggggatgg tagagatgac 60
cacagaaaac gaccacggag agtattatga agattgcaag attagacatt gatgatgtaa 120
attactccct ttctagataa aataatccat agatgtttat gaatcatatt tgtatgatta 180
ttgtgtttac tattattttg acacattatt tattattatt gttgtcacta ttattaccoat 240
taagatagca ggcgtaaaaa tgtactgggt ccttcagtag tgagtatctc tcatagtcca 300
gctttattta tctccaggat gtttttgggt ctgtatttga ttgatattgt cttctcttga 360
ttctgtctaa tttccaacca tattgaataa atgtgatcaa gacaaaaa 408

```

```

<210> 536
<211> 184
<212> DNA
<213> Homo sapiens

```

```

<400> 536
acctctcacc aaggtctctg ctacaggcac attgtgatgt atctctgcac tgatcacota 60
ggtoatgtaa cttttttcta ggctctacct acgatggcat tgtgacataa ctctgcaota 120
atcatccacg tgatgtaaat cttgtctagg atgtgcctaa attaaccttt tgacgttaac 180
ctgt 184

```

```

<210> 537
<211> 311
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 25
<223> n = A,T,C or G

```

```

<400> 537
ccacagttgt atcatatagc atctntaaca ttctatctag gattatctag tatagatctt 60
acatatattg gggctatgtt gtatacaaat ttaacaagaa catatcttct ctgcatatat 120
gtgtgaatta taaagaaaaa catgagaatg actctaagtt caacaaacat gggatgaatt 180
ctatgtgctc ccagtgctct ggatgggctc cccagcaagc cattctctct tctgttctg 240
atattactat tcttttttac attgtgctaa ggaggacaaa aggtgagaga tgaaaataaa 300
gccttgcttt t 311

```

```

<210> 538
<211> 302
<212> DNA
<213> Homo sapiens

```

```

<400> 538
aaaataaaaa agcaaaaact cttgtggtac ctagtccagat ggtgacagag ctgtctgctg 60

```

```

ccgcaggagc acctctatac aggacttaga agtagtatgt tattctcgtt taagcaggca 120
ttgctttgcc ctggagcagc tattttaagc catctcagat tctgtctaaa ggggtttttt 180
gggaagacgt ttctctttatc gccttgagaa gatctacccc agggagaatc tgagacatct 240
tgctactctt tctttattag cttctctctc attcatttct ttatacctt tcttttttgg 300
gg                                                    302

```

<210> 539

<211> 396

<212> DNA

<213> Homo sapiens

<400> 539

```

actgtttatt tgctccttct cttcatgcct gtggctggat gtcccaacac actataagaa 60
atataagtoa agccctttgt gtttaagcaag aactacagac tccatctttt caccctaaac 120
atgaatgacc aataaaaagc aagttattcc agaggaagaa gcagcccttg aaatgttaag 180
gcttaggctt gaaaggtgaa gaggcaggaat tctctctttc aaatcctaga gcaataaacc 240
atgtgtggcc aagttagatc agccctcaag ggcacatgcc aagggcagag cagcccatgt 300
agacagcttc ggagggcatg ggggtgtagg gagtgcgggg tagctcctca ttaactattt 360
gttgggtgag taaaggggtg aggcctcagtg gcaggt                                                    396

```

<210> 540

<211> 634

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> 25, 29

<223> n = A,T,C or G

<400> 540

```

ccaaaaacaa gatgaccaga ttgnttttna gctgatgac cctacaggtc gtgetatgat 60
atggagctct catgggtaaa gcagggaagag agtgggaaag agaaccaccc cactctgtct 120
tcataatttc atttcatgtt taacctccgg ctggaaatag aaagcattcc cttagagatg 180
aggataaaaag aaagtttcag attcaacagg ggggaagaaa tggagattta atcctaaaac 240
tgtgactctg ggaggtcagt catttacagt tagtctgtgt totttcgact totgtgatta 300
ttaaccacac tcactaccct gtttcagatg catttggaat accaaagatt aaatccttga 360
cataagatct catttcgaga aagcagatta aagaccatca gaaggaaatt atttaggttg 420
taatgcacag gcaactgtga gaaactgttg tgccaaaaat agaattcctt ctagtttttc 480
ttgttctcat ttgaaaggag aaaattccac ttgttttagc atttcaagct tttatgtatc 540
catcccatct aaaaactcct caaactccac ttgttcagtc tgaaatgcag ctccctgtcc 600
aagtgccttg gagaactcac agcagcacgc cttta                                                    634

```

<210> 541

<211> 221

<212> DNA

<213> Homo sapiens

<400> 541

```

cacacaaagca gcagagacca tgggaacctt ctcagcccct ccttgccac agcgcaccaa 60
atggaaaggg ctccctgctca cagcatcact tttaaacttc tggaaactgc ccaccactgc 120
ccaagtcaag attgaagccg agccaaccaa agtttccgag gggaaggatg ttcttctact 180
tgtccacaat ttgccccaga atcttaccgg ctacatctgg t                                                    221

```

<210> 542

<211> 287

<212> DNA

<213> Homo sapiens

```

<400> 542
cctcttctac      tatggcagga  gatgtggcgt  gctgttgcaa  agttttcacg  tcctcgtttc  60
ctggctagtt      catttcatta  agtggctaca  tcctaacata  tgcattttgtt  caagggttga  120
gaagaggact      gaagattgac  tgccaagcta  gtttgggtga  agttcactcc  agcaagtctc  180
aggccacaat      ggggtgggtt  ggtttgggtt  ccttttaact  ttccctttgt  tatttgcttt  240
tctcctccac      ctgtgtggta  tattttttta  gcagaatttt  atttttt      287

```

<210> 543

<211> 274

<212> DNA

<213> Homo sapiens

```

<400> 543
acttgtgaaa      cacagctgtt  cttctgttot  gcagacacgc  ottccccctca  gccacacca  60
ggcaacttaag     cacaagcaga  gtgcacagct  gtccactggg  ccatttgggtt  gtgagcttca  120
gatgggtgaag     cattctcccc  agtgtatgtc  ttgtatcoga  tatctaacgc  tttaaatggc  180
tacttttggtt     tctgtctgtg  agttaagacc  ttggatgtgg  ttttaattggt  tgtctcctaaa  240
aggaataaaa      cttttctgct  gataagataa  aaaa              274

```

<210> 544

<211> 307

<212> DNA

<213> Homo sapiens

```

<400> 544
ccagggtggtt     gtcttattgc  accatactcc  ttgcttctcg  atgctggggca  atgaggcaga  60
tagcaactggg     tgtgagaatg  atcaaggatc  tggaccccaa  agaatagact  ggatggaag  120
acaaaactgca     caggcagatg  ttgcctcat  aatagtcgta  agtggagtcc  tggaaattgg  180
acaagtgtcg      ttgggatata  gtcaacttat  tctttgagta  atgtgactaa  aggaataaac  240
tttgactttg      ccaggcatg  aaattcttcc  taatgtcaga  acagagtgcga  acccagtcac  300
actgtgg              307

```

<210> 545

<211> 570

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 191

<223> n = A,T,C or G

```

<400> 545
accttagaaa      tttagaacca  cctccctgaa  agtctttctc  caogttatta  agtgcaatgt  60
ttatggtgaaa     tgtagaagca  tcctgatgag  gacgaagaga  acgctgtcgt  tcagggggagt  120
attttactac      aaaattcagt  agtgcaaatc  ccttcgtata  atagccttgc  aagaccttca  180
gtgtaactgg      ngcaatgaac  tcccggaata  aatgaagcca  tacattctcc  agatcaactt  240
gcttcagtgtg     gatataccta  gttgggacat  ttccataacc  accagatata  cggtatcat  300
gatgttttcc      ccagaccat  ttgccgtaat  gttccatttc  ttctaaccaat  tcattcacagg  360
ctttttcaga      aaatatgggg  aacccaaaaga  catctggaca  gggctgttca  actatatattt  420
cagtgaataat     ctttgaataa  tcacgggtta  tatacttttc  cttccagttc  acaggatttt  480
caaaaactctg     ccagaggtca  ttgtataat  ggggaagtatt  gtaattagca  gtggataata  540
gccttccaaa      ttcctgtcta  ttgaaatgt              570

```

<210> 546

<211> 589

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 565

<223> n = A,T,C or G

<400> 546

```

aaaaatactt tttaccaaag gtgctatttc tctgtaaaac actttttttt ggcaagttga 60
ctttattctt caattattat cattatatta ttgtttttta atattttatt ttcttgacta 120
ggtattaagc ttttgttaatt atttttcagt agtcccacca ctctcataggt ggaaggaggt 180
tggtgttctt cctgggtgcag gggctgaaat aaccoagatg ccccccacct gccacatact 240
agatgcagcc catagtgtggc cccctagct tccagcagtc cactatctgc cagaggagca 300
agggtgcctt agaccgaagc caggggaaga agcatcttca taaaaaaact tcaagatoca 360
aacattaatt tgtttttatt tattctgaga agttgaggca aatcagatatt cccaaggatg 420
gcgacaaggc cagccaagca gggcttagga tatccagcc taccaatatg ctcatctgac 480
taactaggag ggtgagttgg cctgtctctt tcttttttct ggacctcagt ttccttcagt 540
ggagcttggt aaaaatgcac taacctttga ttgtataagg tataaatct 589

```

<210> 547

<211> 293

<212> DNA

<213> Homo sapiens

<400> 547

```

actctattta ttgactgtag tcaatcaaac ataaaaagg gaaagtaaaa tttatttttt 60
tacccttatt ttactgacca atatggaagt tcttggtatc tttagggtg aaccttcctg 120
tattgtgtaa tgattgaatg tatctaaact gtaataattt gaaactgaca aacataacct 180
tctcagactt acaaaactat gttcttttota aagatacaga tttttattat tttattttga 240
ctagggaagg tttataaata aatgtaatga aaaaactctt atcttaataa agt 293

```

<210> 548

<211> 98

<212> DNA

<213> Homo sapiens

<400> 548

```

aaacaaaggc tgagatgtaa aagggtattaa attgatgttg ctggactgtc atagaaatta 60
caccacaaga ggtattttatc ttactttttt tttgtaca 98

```

<210> 549

<211> 121

<212> DNA

<213> Homo sapiens

<400> 549

```

acatgcatac ttcaagacc tgttaatggc gtccactttg gattcttaca tgaaacgatt 60
cagtgccatc tgtaagccta aggaccacgc aaaaggggtt cccacatatt aagtattcag 120
t 121

```

<210> 550

<211> 509

<212> DNA

<213> Homo sapiens

<400> 550

```

acaatagtat acattttata atgatgaact tataatgatt aaggacatt tctataaaaa 60
taactacaata gttttatgca caacttccca ttaaaaatga gattttctat ttgtttgtct 120

```

```

gtttttactc tgggagtaat acttttttaa ttacctttac atatatagtc actggcatac 180
tgagaatata caatgatcct ggaatttgca gtaacaaaag cacacaacga ttatagtaac 240
tataagatac aataaaacaa ataaatgtga aagtagattc atgaaaatgt attcctttaa 300
aatattgttt tcctacaggc ctatttaaca agatgtttca ttttactgta tattttgtag 360
ttaatatataa tgttgctcta atcagattgc ttaaaagcat ttttattata tttatgttgt 420
tgaactaata tatgaaataa gtaaatgtag ctcccacaag gtaaaccttc ttggtaagat 480
tgcactgttc tgattatgta agcatttgt
509

```

<210> 551

<211> 427

<212> DNA

<213> Homo sapiens

<400> 551

```

accatgggta tatgattaat cttgggacaa agaattttat agaaattttt aaacatctgg 60
aaaagaagct taagttttat catccttttt ttctcgtgta attccttaag gattatgctt 120
taatgctgtt atctatctta ttgtttctga aaatacctgc atttttttgt atcatgttca 180
accaacatca ttaataaatt aattagattc ccattggcat aaaatggctt taaagaatat 240
atatactatt ttaaatgtagc ttgagaagca aattggcagg taatatitca taccataaatt 300
aagactctga cttggattgt gaattataat gatatgccc ttttcttata aaaaacaaaa 360
aaaaataat gaaacacagt gaattttag agtgggggta tttgacatat tttacagggt 420
ggagtgc
427

```

<210> 552

<211> 340

<212> DNA

<213> Homo sapiens

<400> 552

```

octcaaggcg gtccaattat ccacttgacg attctacaga aagagtgttt caaaactgct 60
ctgtcaagag aaatggtcca ccgtgtgtgt ggaatgcagc catcacacat tagtttctga 120
gattgcttct tctctgtgtt tatggggaga tatttccatt tctagcatag gcttcaaggc 180
gctctaataa tccgcttgga aatactacaa aaacagtggt tcaaaactgc tgtatccaaa 240
ggaaggtgcc actcgtgtag ttgaatgcac acatcacaa gaaagtttctg agaattcttc 300
tgtctagatt catcacgaaga aatcccggtt ccaacgaagg
340

```

<210> 553

<211> 549

<212> DNA

<213> Homo sapiens

<400> 553

```

acttgagctg tgaggtcatc ggaatccgca cactgtgctt catctggaac aaggtaaaaa 60
ggggtcacta tggagttcaa aggacagaac tcctgcctgg tgaccgggac aacctggcca 120
ttcagaccgg ggggtggcca gaaaagcatg aagtaactgg ctgggtgctg gtatctcttc 180
taagtaagga agatgctgga gaatatgagt gccatgcac caattcccac ggacagggtt 240
cagctcagcg aaaaattaca gtggttgatg ccttacatga aataccagtg aaaaagggtg 300
aagggtgcga gctataaacc tcagaaatat tattagtctg catggtttaa agtagtcatg 360
gataactaca ttacctgttc ttgctaata agtttctttt aatccaatcc actaacactt 420
tagttatat cactggtttt acacagagaa atacaaaata aagatcacac atcaagacta 480
tctacaaaaa tttattatat atttacagaa gaaaagcatg catatcatta aacaaataaa 540
atacttttt
549

```

<210> 554

<211> 321

<212> DNA

<213> Homo sapiens

```

<400> 554
acctaataat atgttaacat aaacataaca acacacatat tattttttccta ccccttgcca 60
actgaaaatg aagttaccat tcttagggcca aatttttaga caaagctttc taaaaccatc 120
ttttataaagt aaattcagat atgcttacaa taaaagaca taaaagattc atcctgagat 180
gaattctgag tcaataacta aaaaccattt ctaccagtcg atcactacca tgtaatccat 240
tctacgcaag ctctacaaat attgagtcaa atctctgtctg tcagaaaatg aagaccaaat 300
aagtttgccg aagtattcag t 321

```

```

<210> 555
<211> 322
<212> DNA
<213> Homo sapiens

```

```

<400> 555
ctggatcccg agaactctgg aacaatagag ctgcacotta tctcttggct ctgtttctca 60
gtactttgaa gttataacta atctgcctga agacttctca tgatggaaaa tcagccaagg 120
actaagcttc catagaaata cactttgtat ctggacctca aaattatggg aacatttact 180
taaacggatg atcatagctg aaaataatga tactgtcaat ttgagatagc agaagtttca 240
cacatcaaa taaaagattt gcatatcatt atactaaatg caaatgagtc gcttaaccct 300
tgacaaggtc aaagaaaact tt 322

```

```

<210> 556
<211> 286
<212> DNA
<213> Homo sapiens

```

```

<400> 556
aaaaaatatg tatctaagaa tgttctaggg cactctggga acctataaag gcagggtattt 60
cgggcctccc tcttcaggaa tcttctctgaa gacatggccc agtcgaaggc ccaggatggc 120
ttttctgctg gccccgtggg gtaggaggga cagagagaca gggagagtca gctccacat 180
tcagaggcat cacaagtaat ggcacaattc ttoggatgac tgcagaaaat agtgttttgt 240
agttcaacaa ctcaagacga agcttatttc tgaggataag ctcttt 286

```

```

<210> 557
<211> 459
<212> DNA
<213> Homo sapiens

```

```

<400> 557
acagaagatg aataataatg aaaaactgtg attttttgac tatcacatac atttgtgtta 60
aaaacaggta aatataatga ctattactgt taagaaagac aaggaggaaa actgtttcaa 120
tgttcaggtt taaataactaa gcacaaaaat ataacaaatt ctgtgtctac aataattttt 180
gaagtgtata caagtgcatt gcaaatgagc tctttaaat ttaaagtcca ttcccccctt 240
agccaagcat atgtctacat ttatgatttc ttctctttat tttaaagtct cttctgggtt 300
agttttttaa aaagtttcat catggctgtc atcttggaat ctagccctca gctcaaagct 360
gagacttccac gcatacatat tctctttctt ggggtgcatc tcacctgatt tctccaagta 420
ttcagagtta aatagacaaa ctctctttat atgttccct 459

```

```

<210> 558
<211> 303
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> 40, 83, 106, 108, 122, 128, 269
<223> n = A,T,C or G

```



```

<400> 558
aaaaaataaa aaacaagaca acaatttagt agaagtaccn ctgggaggga ggggaggaga 60
aaaaagata tacaggggga gngtattct ctgtacagag gtgcanaaa aatttcacat 120
anctttanag aatgccttgt ggaaaaaaa aaataggccc caatacttgt tactgccctt 180
tatcaaaact gtgtgcatga cctgcacaaa taaaatcaca aaacagtgtt gccacattct 240
tcaaggaaac aaagcaaaat ttagggggnt tcttttcctt ctccttgtaa aaagtcattt 300
ttt 303

```

```

<210> 559
<211> 232
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 212
<223> n = A,T,C or G

```

```

<400> 559
aaagcattta ttaagaattt actcaggcat gatggcccat acttgtaacc ccagctattg 60
ggaaggatga gatggaggga tggccttgagg ccagagggtt gagaccgacc agccagggca 120
acacagttag accccttctc aaaaaaaaaa aaaaaaaag agagagtgtg tgattagaag 180
ctaaatagga aagtttttag cttcaagtca gngaggagta aaaaagattt tt 232

```

```

<210> 560
<211> 336
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 15, 16, 290, 300, 305, 324
<223> n = A,T,C or G

```

```

<400> 560
ctctgcacaaa ataannataa aaaaataaat aaaattttta aaataataaa attcactata 60
tacacatata aagaaataaa aagaagtctc agttgcagct atttgtaaaa attaatatcc 120
attttttttt atatacgggtg aatattgcgc aattatagat ctggattttg aaccacttaa 180
tgaagcggca acaccagggtg ttttgagggt ttggcattct tcgctgattt gctgtgtccc 240
aatgtttaca ttattttaatc ttgcaaaaat ggttctgtgc acttggatgn gaaatgctgn 300
ccagntttat tttttttatg ttgntatcct tggatg 336

```

```

<210> 561
<211> 636
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 591
<223> n = A,T,C or G

```

```

<400> 561
acattatggg tttttattgt ttcttttatg gttagacctgt taatggggaa aaaatacatc 60
aaatcaataa gaattcttata tctgtatgtt aaatagagc acttacctga agtcagtggt 120
ctggatcata gccctggatc atttccaggt ctgtcctgtg ctgtgtgacc ttggacaagg 180
cgcttcacat ctctggggct ctattttctc atttgtaaaa caagtgggtg cagttagatga 240
tggtctgagag cccttctgtg tcccagatgc cttggtccaa agacccccacc cctctgtgtg 300

```

```

tccctgccaac  gtgtgtggtgc  tataagctgc  ttcagatata  aaattggttt  atctataatg  360
ttttgttcatt  taatagcttcc  taaaaggcct  tttttgtata  cagtgctttt  tttctagttt  420
tatggacttgg  gttactgttaa  taatgtcttg  tttttagcca  tgtaactaca  aacagatat  480
ctcttgatgt  cttagtaaat  ttgcatttga  tatatcattg  atgagatttt  gttgttatgt  540
aatattcttt  ggctacgcac  ctgtccagca  tcttattaac  cataatactg  ngatcattat  600
ttggaaatat  gtcctatgga  aagaataaaa  gcatgt      636

```

```

<210> 562
<211> 708
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 662, 694, 697
<223> n = A,T,C or G

```

```

<400> 562
acagtccacc  ttttgataca  tgccatgcct  ttgatcaaa  aacaggacat  aaaaacaagg  60
tcacaatgac  attccatagt  aaatttggaa  tcagaaactc  aaatgcaact  tcgggctcgc  120
tggagaacaa  ctaaggggca  ccaaaccctc  tgaggtttta  ctttaaggtt  cgctgtatgt  180
ttgoccttga  caaaaaggct  acctaccacg  tgctatccag  taatatactt  aaataagcca  240
atacttagat  ctactgttaag  gcagatgcta  attataaggc  attaagtaag  caaatagtgc  300
cctcagctac  tgcagaagaa  aagtccacct  gaggaaaaga  aagtcttggt  atttttaaag  360
gcaagttttc  aagtgtcttc  atagttctat  cctctaattc  cattaaatcc  atactaggag  420
cgtcagtgag  ggttttcata  gcttttggaa  atactttggt  ctctgaaactg  taattagcaa  480
gaagtataaaa  cagaaacgtc  aaacgtcaaa  tgtttgcttt  gttacctgga  ggactaaatg  540
tagatgtctt  tagtataact  tgtatgttct  taatattgga  agataatttt  gtgaatctgt  600
agattttatt  ttttcagctc  taccttcaaa  atttcttttc  tatgaataat  agaggactta  660
ongcaactcg  ccatttgta  atgaaaggaa  ggngangat  ttgaagg     708

```

```

<210> 563
<211> 290
<212> DNA
<213> Homo sapiens

```

```

<400> 563
ccagatgctc  atccactttc  agactttcat  ctcttctgcc  atctgccaaa  gtcaacagag  60
ctttccggaa  gtcaccagat  gtttcggaac  taatgtcatc  tccaagactc  ttcttgtata  120
ctgtataata  ggcttgagag  atatccttca  ttgctcgtct  tgtctcgtta  gttaagattt  180
caatcaaggc  atctctgttt  gttcccgctc  cctctcatga  tttcttttag  tgctttgcat  240
caagactgac  ttgttgagtc  actagggcca  ccattgagat  ctcaaaagtg  290

```

```

<210> 564
<211> 530
<212> DNA
<213> Homo sapiens

```

```

<400> 564
accaccagat  acttaaaagt  tcaaaaagac  tgcccctacc  accacaggag  gaccagccta  60
accatacgct  ccaaaagatg  gctgtgatag  atcttgtgaa  gcaattactg  agcagatcaa  120
gatcttttgg  aaggaaacact  aaagatgttt  tgaatgaatt  atagtccaat  ggcatttttag  180
tgtatttttt  tttcttttta  gaaacacaca  tttctaaaaa  tgtcatgtta  cattcctgca  240
tgtccctttt  gatagcattta  gtggatccat  tggattttct  ttttcttttt  gtgagacagc  300
ttttagtctt  acctgaattt  atgtgtgttt  ttccgacagt  ggttaataat  tatattgggt  360
atgtagcagc  aatttgtgtg  gcagggtttt  catatattat  tagtaattaa  cactaaactgt  420
tggactgact  tgtgtcgata  gcgtccacgc  aagcatggtt  aacgtcccta  aaaccgcctg  480
gactttctgt  aagaagtgtg  gcaagcacca  accccataaa  gtgacacagt  530

```

<210> 565
 <211> 450
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 19, 20
 <223> n = A,T,C or G

<400> 565
 ctgcttacgg aagcgctggn tgactaggat gtgatttatt aacgaccaac ttctgttatt 60
 gtgtgttaag tttttcatct gtgcatcaaa tcacaaaag aataaataga gctttttcct 120
 ttatcagtc cttgggcaca gcaggctcctg aacacccctg tctacaatgt tgcatacaga 180
 gttcaaacaa caaaataaaa aatattaaga ggaatcccc atcctgtgac ttgagtcctt 240
 taagtctaca ggggtctggtg acctcttttt gctaataagga aaatcacatt actacaaaat 300
 ggggagaaaa ctgtttgcct gtggtagaca cctgcacgca taggattgaa gacagtaacg 360
 gctgctgtac agagaagcgc ctctcacatc tgaactgcat actgagcggg caagtgcggt 420
 gtaagtctacg taaaaccctc tgatgatgcc 450

<210> 566
 <211> 563
 <212> DNA
 <213> Homo sapiens

<400> 566
 acttgagctg tgaggtcatc ggaatccoga cacctgtcct catctggaac aaggtaaaaa 60
 ggggtcacta tggagttcaa aggacagaac tcctgcctgg tgaccgggac aacctggcca 120
 ttacagcccg ggggtggcca gaaaagcatg aagtaactgg ctgggtgctg gtatctcctc 180
 taagtaagga agatgctgga gaatatgagt gccatgcac caatcccaa ggacagcgtt 240
 cagcatcagc aaaaattaca gtggttgatg ccttacatga aataccagtg aaaaaagggtg 300
 aagggtgccg gctataaaacc tcagaatat tattagtctg catggtttaa agtagtcatg 360
 gataactaca ttacctgttc ttgctaata agttctcttt aatccaatcc actaacactt 420
 tagttatatt caactggttt acacagagaa atacaaaata aagatcacac atcaagacta 480
 tctacaaaaa ttttatatat atttacagaa gaaaagcatg catatcatta aacaaataaa 540
 atacttttta tcacaaaaaa aaa 563

<210> 567
 <211> 424
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 159, 229, 263, 307
 <223> n = A,T,C or G

<400> 567
 ccagtgagca aattgaaaac caactgaaag caaatccaaa tgagggaagat ttaataaaag 60
 gaataccctt ctccatagca ggtgcaatgc tgactgctca aggcgtgcgt gcgcgcgcac 120
 acacacacac acacacacac atacatactc tcacacacnc atctttccaa ttaaacatgca 180
 ggtagaatga gatttttggt tattcaaaaa atttgtaagt gatcaaaanc actgctatg 240
 aatgcctggt tatctgcctt tgnctcggtt aaaaatcctc aaaaatcatc tcaacaggaa 300
 aacatanatt gtatgtgtat aaatatatat gtatatatat atatttatata cacatgcaca 360
 caaatacttt tgttttttga agcataaagat agttacataa atactcctat aattgctaaa 420
 gttt 424

<210> 568
<211> 392
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 239, 260, 294, 316, 384
<223> n = A,T,C or G

<400> 568
actggctcac tcagagagga cgtccttcaa ctatgccatg aaggaggctg ctgcagcggc 60
tttgaagaag aaaggatggg aggtggtgga tgcggacctc tatgccatga acttcaatcc 120
catcatttcc gaaaggaca tcacaggtaa actgaaggac cctgcgaact ttcagtatcc 180
tgccgagtct gttctggtct ataaagaagg ccatctgagc ccagatattg tgggttganc 240
aaaagaaagc ttggaagcnc caagaacctt gtgatattcc agttccccc gcaantgggtt 300
tggggaagtc ctcgocntttt gaaagctggt ttgaagcgaa tgttcatagc aaagtttgtg 360
taccacttac cctgcacctg gtangacaaa ag 392

<210> 569
<211> 559
<212> DNA
<213> Homo sapiens

<400> 569
aaagagattt attaaatcat cttatcacaa agatggaaac atatacaaac tagaacaatg 60
caaccatcat cttccacagt caagtoacaa tgtcaaatat ttttcttgcc tctgcagatg 120
aaaagtccag atctttatcc caactactta ctcaaccocga atattttaagt cagtccttcc 180
gaaagtactc aggttagcaa gtaacaaaaa gcaaacgatt atataaagaa agtgcagtta 240
aaaaggaaac tatgtggcaa gtacctcttt tcccttccca ccccccattt aaaggcaaac 300
aatggcaact tgctcttgct taacctagat tgtcttcaaa aactattaaa atgtaaaaa 360
cttaacaaaa aaacaaaaag acgtttaaca gatgtcaaaa agctccttag tgtttgaaaa 420
taaagtctta aacaaaaagc aacatatttt atatcaaaaa agtttgaaga gccctgaatt 480
gcagcattct gtaacataaa caaacaaaaa gctggtatag gattttattg caaaggcaga 540
atttcttcaa gcagggttaa 559

<210> 570
<211> 368
<212> DNA
<213> Homo sapiens

<400> 570
agccgcgcgt ggatgctaag tccgatgtca ccaaccagct tgtagatttt cagtggaaac 60
tggttatggc tgtgagctca gacacttgca gatctottaa gtatccttac gttgcagtga 120
tgctaaagt ggcagatcat tcaggccaa gtaagaccaa gtgctttgaa atgacgattc 180
cacagtttca gaatttctac agacagttca aggaatttgc tgcagtattt gaaacggtgt 240
gaagacggat tctttggttg ataatttgct atcatttcaa agtcatggac ttcactttcg 300
gcaacaaaac taataaagga tggaaacattt attgaatgaa aaatgcactt ttgtttttcc 360
attttttt 368

<210> 571
<211> 261
<212> DNA
<213> Homo sapiens

<400> 571
acacgattgc tgcttccgct atatttgtga tataggaatt aagaggatgc acacgtttgt 60
ttcttcgtgc ctgtttttat tgcaacacatt aggcattgag acctcaagct tttctttttt 120

```

tgtccacgta tctttgggtc tttgataaa aaaagaatcc ctgttcattg taagcacttt 180
tacggggctg gtggggaggg gtgctctgct ggtcttcaat taccaagaat tctccaaaac 240
aattttctgc aggatgattg t

```

```

<210> 572
<211> 488
<212> DNA
<213> Homo sapiens

```

```

<400> 572
ctctcagctc tcgggcgcag gccagcttc cttcaaaatg tctactgttc acgaaatcct 60
gtgcaagctc agcttggagg gtgatcactc tacaccccca agtgcattat ggtctgtcaa 120
agcctatact aactttgatg ctgagcggga tgctttgaac attgaaacag ccatcaagac 180
caaagggtgt gatgagggtc ccattgtcaa cattttgacc aaccgcagca atgcacagag 240
acaggatatt gccttcgcct accagagaag gaccaaaaag gaacttgcac cagcactgaa 300
gtcagcctta tctggccacg tggagacggg gatattgggc ctattgaaga caccgtgtca 360
gtatgacgct tctgagctaa aagcttccat gaaggggctg ggaaccgacg aggactctct 420
cattgagatc atctgtctca gaaccaacca ggagctgcag gaaattaaca gagtctacaa 480
ggaaatgt

```

```

<210> 573
<211> 619
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 21
<223> n = A,T,C or G

```

```

<400> 573
actttactga aagaacacta ntgttctttc ctttcogttg tgaaaaaagt tgtttctgag 60
gaattgaaac ccagaaagat aactacaaca aaaacatgtt aatttttttt taaaaatgat 120
gattcaaaag cagattgtgaa gggaaagtaat atttaggttg cagaagaagg caaatgcagc 180
ctctgaaggg aactgttcta attattacct aaaaaataaa gttacacaac tatattcaag 240
gacatgagat aaagcactgc ttgaaaacca gaatgactga acagttaggt gaaaaggaaac 300
agctgaaata ggaaggggaa atggaactgaa gaataatttg aatcgggaca gtgatccatc 360
agtccatgat gcttctggta tgtaaatata ttgaatcaca ttgtttcctt tcttctgaaa 420
tctcaaaagg gaattctcac agcactacat taagggttgc attttgttag gattcaaaaat 480
ttcaatccag tagccatcag gatcttgaat aaatgccagg cttttcattt taccatcatc 540
aggtttcttc acaaatgtga ctccagtctt caaccttttc aagcctgac atcaggaaac 600
caattccata tgaccgatc

```

```

<210> 574
<211> 202
<212> DNA
<213> Homo sapiens

```

```

<400> 574
acatccaccc cactattttt tcacataccg aatcaggatt gaaatgtcaa aagatgcact 60
tcttgagaag gctgttcagt tggacagtgc ctattggaga ataacaaatg ctaagggtga 120
cgtggaagaa gttcaaggac ctggagtagt tgggtgaattt ccaatcatca gccagggtgc 180
ggtatatgaa tacacaagct gt

```

```

<210> 575
<211> 311
<212> DNA
<213> Homo sapiens

```

```

<400> 575
ccacagttgt atcatatagc atctctaaca ttctcatctag gattatctag tatagattott 60
actatatattg ggacatattgt gtatacaatg ttaacaagaa catatctctct ctgcataatat 120
gtgtgaatta taagaaaaag catgagaatg actctaagtt caacaaacat ggggtgaattct 180
ctatgtgtctc ccagtgtcct ggatgggctc ccagcaagc cattcctcct tctgtttctg 240
atattactat tcttttttac attgtgctaa ggaggacaaa agatgagaga tgaataataa 300
gctttgacct t
311

```

```

<210> 576
<211> 134
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 34, 83, 98
<223> n = A,T,C or G

```

```

<400> 576
ttttttgcat caaaaagctt tatttccatt tggnccaagg cttgttagga tagttaaaaa 60
agctgcctat tggctggagg ganaggctta ggcaaancc ctattacttt gcaagggggc 120
cttcaaaagt cgct
134

```

```

<210> 577
<211> 488
<212> DNA
<213> Homo sapiens

```

```

<400> 577
ctgatcagtg ggctccaag gaggggctgt aaaatggagg ccattgtgtg agcctatcag 60
agttgtctga aactgcaccc ctgctcagta aagcacttgc aaccgtctgt tatgtctga 120
cacatggccc ctcccctgc caggagcttt ggacctaatc caagcatccc tttgccaga 180
aagaagatgg gggaggaggc agtaataaaa agattgaagt attttgcctg aataagttca 240
aattctctctg aactcaaac gaggaatttc acctgtaaac ctgagtcgta cagaaagctg 300
cctgggtatat ccaaagctt tttattctctc ctgctcatat tgtgattctg cctttgggga 360
cttttcttaa accctcagtt atgatttttt ttccatacac ttattggaac tctgcttgat 420
ttttgctctt tccagtcctc ctgacacttt aattaccaac ctgttaccta ctttgacttt 480
ttgcattt
488

```

```

<210> 578
<211> 476
<212> DNA
<213> Homo sapiens

```

```

<400> 578
accatgcatt aagagcttcc tgattgagat tcagtgcac agccgtgtct attccatcta 60
cgtccacacc gtctgtgacc cactctttga agctgttggg aaaatatcca gcaatgtctg 120
catcaacttg cagaaagaaa tataaatgac atttcaagga tagaagtata cctgattttt 180
ttccttttaa ttttctcgtt gccaatttca agttccaagt tgctaataca gcaacaattt 240
atgaattgaa ttatcttggt tgaaaaataa aagatcactt tctcagtttt cataagttatt 300
atgtctcttc tgagctattt catctatttt tggcagtcgt aatttttaaa accattttaa 360
atttttttcc ttaccttttt atttgcattg ggatcaacca tctgtttatt ggtcgagata 420
tgaacatatt gttgaaaggt aatttgagag aaatatgaag aactgaggaa aaaaaa 476

```

```

<210> 579
<211> 246
<212> DNA

```

<213> Homo sapiens

<400> 579

```
ctgggtgctca ctgagatggg aggttttctt attttctgc tacatctgca caagctacat 60
ctagaatgaa gccaccaatt tcaatgtgac caggcaatgg cagccagcac tgccttacac 120
tggttttgatt ctgattccct aattctggcc actgcagggt atgagtaagg gtggggatca 180
gggaggaagt ccagaagcca gtctttgtct ccctttctct cttatatatta agtgcctatt 240
tacatg                                     246
```

<210> 580

<211> 615

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> 59, 69, 83, 103, 587

<223> n = A, T, C or G

<400> 580

```
gtcttcacag taataactaa tgggtgatcc taaggtgaaa ttatttcctt caaaatagnc 60
atgaactgna ttcccaggag ggnccacgtc cctacttttg canatgggaa agggaggtgc 120
ccagggtgtgg tctctagac actggctccg attgctgccc ttgaggatgt agtgggtcatt 180
gcacataaac gtgattttgt cacttacatt cacaggccct gaagaaactga actctccatt 240
caccagcaca ggaatcaggac agtggcccaa gcggcactca gtagtgggtt tatccactc 300
cttagaggca ttgcaaaaaa ggtctctctt tctaccagg tggtagccct tgatacaaac 360
gtaagtcccc agaactgtct cttccactc ctttgcgaca aatatgctat tgtccactgg 420
aggaagctct ggacagtgtc catctgaagc agaaactcgc caccgaacca taagacagca 480
cgcacaccaa aaaaacatct ggtgatcaaa gtctctccc caggctggaa ttcaccagca 540
tcagacacct taactgtctc tgtccctcca gagttagggt ttcocancaa ggaactgggc 600
ttaactgact tccaa                                     615
```

<210> 581

<211> 576

<212> DNA

<213> Homo sapiens

<400> 581

```
actcttggtg agttctgtg agccttctga tgtctctaaa gcactaccga ttctttggag 60
ttgtcacatc agataagaca tatctctaat tccatccata aatccagttc tactatggct 120
gagttctggt caaagaaaga aagtttgaaa gctgagacac aaagggttgg gagctgatga 180
aactcacaaa tgatggtagg aagaagctct cgacaatacc cgttggcaag gagtctgctt 240
ccatgtgcga gtgttcaggt ggattgtagg tgcaagatgg aaaggattgt aggtgcaagc 300
tgtccagaga aaagagtcct tgttccagcc ctattctgcc actcctgaca gggtgacctt 360
gggtatttgc aatattcctt tgggcctctg cttctctcac ctaaaaaagg agaattagat 420
tatatttggt gttctcagca agagaaggag tatgtgtcca atgtgtgctt cccatgaatc 480
tgtctccagc ttatgaatca gtgggcagga taaactgaaa actccattt acgtgtctga 540
atcgagtggg acaaaatttt agtccaaata acaagt                                     576
```

<210> 582

<211> 939

<212> DNA

<213> Homo sapiens

<400> 582

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atgagcatcg gcctcctgtg ctgtgcagcc ttgtctctcc tgtgggcagg tccagtgaat 60
gtcgtgtgta ctcagacccc aaaattccag gtccctgaaga caggacagag catgacactg 120
cagtggtgcc aggatatgaa coactgaatac atgtcctggt atcgacaaga cccaggcatg 180
```

```

gggctgagcg  tgattcatta  ctccagtgtgt  gctgggtatca  ctgaccaagg  agaagtcccc  240
aatggctaca  atgtctccag  atcaaccaca  gaggatttcc  cgctcaggct  gctgtcggct  300
gctccctccc  agacatctgt  gtacttctgt  gccagcagtt  actcagtcgg  ggagggcggg  360
gattcaccoc  tccaatttgg  gaatgggacc  aggcctcactg  tgacagagga  cctgaaccaag  420
gtgttcccac  ccgaggtgcg  tgtgttttag  ccacacagaag  cagagatctc  ccacacccaa  480
aaggccacac  tgggtgtcct  ggccacagcg  ttcttccctg  accacgtgga  gctgagctgg  540
tgggtgaatg  ggaaggagggt  gcacagtggg  gtcagcacgg  acccgcgacc  cctcaaggag  600
cagcccgccc  tcaatgactc  cagatactgc  ctgagcagcc  gctgaggggt  ctcggccacc  660
ttctggcgag  acccccgcaa  ccacttccgc  tgtcaagtcc  agttctacgg  gctctcggag  720
aatgacagat  ggaccagga  tagggccaaa  cccgtcacc  agatcgtcag  cgcgagggcc  780
tggggtagag  cagactgtgg  cttaacctcg  gtgtctacc  agcaagggggt  cctgtctgcc  840
accatctct  atgagatcct  gctagggga  gccacctgt  atgctgtgct  ggtcagcgcc  900
cttgtgttga  ttggccatgt  caagagaaa  gattttctga  939

```

```

<210> 583
<211> 828
<212> DNA
<213> Homo sapiens

```

```

<400> 583
atgaactatt  ctccaggctt  agtatctctg  atactcttac  tgcttggaag  aaccctgga  60
aattcagta  cccagatgga  agggccagtg  actctctcag  aagaggcctt  cctgactata  120
aactgcacgt  acacagccac  aggataccct  tccctttct  ggtatgtcca  atatcctgga  180
gaaggctctac  agctctctct  gaaagccacg  aaggctgatg  acaagggaag  caacaaagg  240
tttgaagcca  cataccgtaa  agaaaccact  tctttccact  tggagaaagg  ctcaagttca  300
gtgtcagact  cagcgggtga  ctctctgtgt  ccgaaccctt  ctcttcaggg  cggatctgaa  360
aagctggctc  ttggaagg  aacgaaactg  acagtaaacc  catatctcca  gaacctgac  420
cctgcctgtg  accagctgag  agactctaaa  tccagtgaac  agctctgaca  cctattacc  480
gattttgatt  ctcaacaaa  tgtgtcaca  agtaaggatt  ctgatgtgta  tatcacagac  540
aaaactgtgc  tagacatgag  gtctatggac  ttcaagagca  acagtctgt  ggctggagc  600
aacaattctg  actttgcatg  tgcaaacgcc  ttcaacaaca  gcattattcc  agaagacacc  660
ttcttcccc  gccagaaaag  ttctgtgtat  gtcaagctgg  tcgagaaaag  ctttgaaca  720
gatacgaaac  taaattttca  aaactgttca  gtgattgggt  tccgaatcct  cctctgaaa  780
gtggccgggt  ttaattctgt  catgacgtg  cggctgtggt  ccagctga  828

```

```

<210> 584
<211> 275
<212> PRT
<213> Homo sapiens

```

```

<400> 584
Met Asn Tyr Ser Pro Gly Leu Val Ser Leu Ile Leu Leu Leu Leu Gly
      5              10              15

Arg Thr Arg Gly Asn Ser Val Thr Gln Met Glu Gly Pro Val Thr Leu
      20              25              30

Ser Glu Glu Ala Phe Leu Thr Ile Asn Cys Thr Tyr Thr Ala Thr Gly
      35              40              45

Tyr Pro Ser Leu Phe Trp Tyr Val Gln Tyr Pro Gly Glu Gly Leu Gln
      50              55              60

Leu Leu Leu Lys Ala Thr Lys Ala Asp Asp Lys Gly Ser Asn Lys Gly
      65              70              75              80

Phe Glu Ala Thr Tyr Arg Lys Glu Thr Thr Ser Phe His Leu Glu Lys

```


85						90						95					
Gly	Ser	Val	Gln	Val	Ser	Asp	Ser	Ala	Val	Tyr	Phe	Cys	Ala	Pro	Asn		
			100							105							
Pro	Ser	Leu	Gln	Gly	Gly	Ser	Glu	Lys	Leu	Val	Phe	Gly	Lys	Gly	Thr		
			115							120							
Lys	Leu	Thr	Val	Asn	Pro	Tyr	Ile	Gln	Asn	Pro	Asp	Pro	Ala	Val	Tyr		
			130														
Gln	Leu	Arg	Asp	Ser	Lys	Ser	Ser	Asp	Lys	Ser	Val	Cys	Leu	Phe	Thr		
			145														
Asp	Phe	Asp	Ser	Gln	Thr	Asn	Val	Ser	Gln	Ser	Lys	Asp	Ser	Asp	Val		
			165														
Tyr	Ile	Thr	Asp	Lys	Thr	Val	Leu	Asp	Met	Arg	Ser	Met	Asp	Phe	Lys		
			180														
Ser	Asn	Ser	Ala	Val	Ala	Trp	Ser	Asn	Lys	Ser	Asp	Phe	Ala	Cys	Ala		
			195														
Asn	Ala	Phe	Asn	Asn	Ser	Ile	Ile	Pro	Glu	Asp	Thr	Phe	Phe	Pro	Ser		
			210														
Pro	Glu	Ser	Ser	Cys	Asp	Val	Lys	Leu	Val	Glu	Lys	Ser	Phe	Glu	Thr		
			225														
Asp	Thr	Asn	Leu	Asn	Phe	Gln	Asn	Leu	Ser	Val	Ile	Gly	Phe	Arg	Ile		
			245														
Leu	Leu	Leu	Lys	Val	Ala	Gly	Phe	Asn	Leu	Leu	Met	Thr	Leu	Arg	Leu		
			260														
Trp	Ser	Ser															
			275														

```
<210> 585
<211> 312
<212> PRT
<213> Homo sapiens
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```

400> 585
Met Ser Ile Gly Leu Leu Cys Cys Ala Ala Leu Ser Leu Leu Trp Ala
          5                      10                      15

Gly Pro Val Asn Ala Gly Val Thr Gln Thr Pro Lys Phe Gln Val Leu
          20                      25                      30

Lys Thr Gly Gln Ser Met Thr Leu Gln Cys Ala Gln Asp Met Asn His
          35                      40                      45

Glu Tyr Met Ser Trp Tyr Arg Gln Asp Pro Gly Met Gly Leu Arg Leu
          50                      55                      60

Ile His Tyr Ser Val Gly Ala Gly Ile Thr Asp Gln Gly Glu Val Pro

```

65					70										75					80
Asn	Gly	Tyr	Asn	Val	Ser	Arg	Ser	Thr	Thr	Glu	Asp	Phe	Pro	Leu	Arg					
				85						90					95					
Leu	Leu	Ser	Ala	Ala	Pro	Ser	Gln	Thr	Ser	Val	Tyr	Phe	Cys	Ala	Ser					
			100					105					110							
Ser	Tyr	Ser	Val	Gly	Glu	Gly	Gly	Asp	Ser	Pro	Leu	His	Phe	Gly	Asn					
		115					120					125								
Gly	Thr	Arg	Leu	Thr	Val	Thr	Glu	Asp	Leu	Asn	Lys	Val	Phe	Pro	Pro					
	130					135					140									
Glu	Val	Ala	Val	Phe	Glu	Pro	Ser	Glu	Ala	Glu	Ile	Ser	His	Thr	Gln					
145					150					155					160					
Lys	Ala	Thr	Leu	Val	Cys	Leu	Ala	Thr	Gly	Phe	Phe	Pro	Asp	His	Val					
				165					170					175						
Glu	Leu	Ser	Trp	Trp	Val	Asn	Gly	Lys	Glu	Val	His	Ser	Gly	Val	Ser					
		180					185						190							
Thr	Asp	Pro	Gln	Pro	Leu	Lys	Glu	Gln	Pro	Ala	Leu	Asn	Asp	Ser	Arg					
		195				200							205							
Tyr	Cys	Leu	Ser	Ser	Arg	Leu	Arg	Val	Ser	Ala	Thr	Phe	Trp	Gln	Asn					
	210					215						220								
Pro	Arg	Asn	His	Phe	Arg	Cys	Gln	Val	Gln	Phe	Tyr	Gly	Leu	Ser	Glu					
225				230						235				240						
Asn	Asp	Glu	Trp	Thr	Gln	Asp	Arg	Ala	Lys	Pro	Val	Thr	Gln	Ile	Val					
				245					250					255						
Ser	Ala	Glu	Ala	Trp	Gly	Arg	Ala	Asp	Cys	Gly	Phe	Thr	Ser	Val	Ser					
			260				265						270							
Tyr	Gln	Gln	Gly	Val	Leu	Ser	Ala	Thr	Ile	Leu	Tyr	Glu	Ile	Leu	Leu					
		275					280					285								
Gly	Lys	Ala	Thr	Leu	Tyr	Ala	Val	Leu	Val	Ser	Ala	Leu	Val	Leu	Met					
	290					295					300									
Ala	Met	Val	Lys	Arg	Lys	Asp	Phe													
305					310															

<210> 586

<211> 97

<212> PRT

<213> Homo sapiens

<400> 586

Glu	Val	Glu	Val	Ser	Arg	Asp	His	Ala	Ser	Leu	Gly	Asp	Ser	Glu	Thr
				5					10					15	

```

Leu Ser Gln Thr Glu Leu Arg Lys Lys Glu Arg Lys Lys Lys Arg Glu
      20                25                30

Arg Lys Phe Gln Ala Asn Cys Gly Ile Asp Phe Ile Ile Phe Trp Ile
      35                40                45

Phe Trp Ile Leu Leu Phe Ser His His Trp Ile Gln Glu Ser Leu Leu
      50                55                60

Cys Pro Pro Ser Pro Lys Glu Val Thr Cys Arg Glu Met Leu Thr Gly
      65                70                75                80

Gly Cys Leu Pro Trp Ala Thr Arg Ser His Leu Gly Arg Arg Lys Cys
      85                90                95

Ser

```

```

<210> 587
<211> 16
<212> PRT
<213> Homo sapiens

```

```

<400> 587
Phe Gln Ala Asn Cys Gly Ile Asp Phe Ile Ile Phe Trp Ile Phe Trp
  1           5           10          15

```

```

<210> 588
<211> 530
<212> DNA
<213> Homo sapiens

```

```

<400> 588
gaattcggca cgagggtctg aggctgagat gcaggagctc gccatccagc tgcacaagcg 60
ctgcgaggag gttagaggcca cgcggggcca ggtgtgtcag gagcaggagc tgcgcgcctg 120
ggtagagagc tgctgtctga gcaggaccgc gcccgcgagg acctccagcg ccggctgcgg 180
gagacgtggg cctctggccc ggatgctgcc ctctctctgg accagctgcg agcctgtcaa 240
gctgagctgt catctcgagt gaggcaggac cagcccccctg gtacagccac tctgggccta 300
gccgtccccc cagctgactc caagggctgg caagcgctcc tgcaggccat gagcctcccc 360
gagctctcgg gagccctgga ggaccgtgtc cgtgagatgg ggcaagcact gtgcttagtg 420
accagagcc tggagaagct gcagggtctg aacgggaaga agtggcgagg gacctagcct 480
cggggccgaa tctgacgttg ggtgattggt ccacctgaa gctgtgtgac 530

```

```

<210> 589
<211> 349
<212> DNA
<213> Homo sapiens

```

```

<400> 589
gaattcggca cgaggccagt tcagtctgca agcgccagct cctctcatgg ccggettacc 60
caccgccttg ccaatgccca ggggcaaac tcataccacc acttccagaa cactgatcat 120
gacaaccaac aatcagggtac gtggtcctct ggcacccttc ccgctgggtg tccctgggaa 180
cagcatccga gctgtgatat gactagagg agattgatgg tcccttgaat tagaagagta 240
actttttgag tattttggcca ttggtgtgtt gttctaggaa atcctctctt ttttgggtg 300
ttgaggtccc ccatgtatag ttctcagcag gaggacactg tggttcttg 349

```

<210> 590
 <211> 509
 <212> DNA
 <213> Homo sapiens

<400> 590
 gaattcggca cgaggcaatc atggcgccac ctgtgagata ctgcattccc ggccaacgtc 60
 tgtgtaactt ggaggagggc agcccgggca ggggcaccta caccggccac ggctacatct 120
 ttctgtcgct tgcggcgctgt ctgatgaaga gcagcgagaa tggcgcgctt ccagtgggtgt 180
 ctgtagttag agaaacagag tcccagttac tgccagatgt gggagctatt gtaacctgta 240
 aggtctcttag catcaattca cgctttgcca aagtacacat cctgtatgtg ggggtccatgc 300
 ctcttaagaa ctcttttcga ggaactatcc gcaagggaaga tgtccgagca actgaaaaag 360
 acaagggttga aattttataag agtttccgcc caggtgacat tgtctttggc aaagtgtatct 420
 ccttaggtga tgcacagtcc aactacctgc taaccaccgc cgagaacgag ctggggagtgg 480
 tggtagccca cagttagtca ggtatccag 509

<210> 591
 <211> 510
 <212> DNA
 <213> Homo sapiens

<400> 591
 gaattcggca cgagggtcat gttgtgtgag gatcccgggg ccgcccgcgc gctcggggccc 60
 cgccatggcc gtaccatcca cgctcaaaac gctgcagcag cagaccttca agatccgcct 120
 ggagcgtgac gagacgttga aggtgctaaa ggagaagata gaagctgaga agggctctga 180
 tgctctcccc gtggctggac agaaactcat ctatgccggc aagatcttga gtgacgatgt 240
 cccatcaggc gactatgcca tccatgagaa gaactttgtg gtcgtcatgg tgaccaagac 300
 caaagccggc cagggtaact cagcaccccc agaggcctca cccacagctg cccacagatc 360
 ctctacatcc ttcccgcctg ccccacatcc aggcattgct catccccac ctgcccgcag 420
 agaggacaag agcccatcag aggaatccgc ccccacgacg tcccacagat ctgtgtcagg 480
 ctcttgttcc ctcttcagggt aacaaccggg 510

<210> 592
 <211> 432
 <212> DNA
 <213> Homo sapiens

<400> 592
 gacatgtaat tcttatttat ttttaccctt caacaaggaa gaaaggtctc tccctcaatt 60
 ctgctcttcc aatacttgag gataggcacc cctaaccctc ctctctccag ggaggctcca 120
 gcatcaggt ctgtggcgt agtctctgaa gactgtctca gctgatgggg aaggagaaac 180
 tcaagacaga gatcctccta gggatggcgt cactttcctg ccaactttct cgttgctctc 240
 ccttgaaagc agaagaagt ccagccctca gcttccgtca gatcttgggc tcttagggcc 300
 ttgtacaagt ccatggccct ctggttccag tccaggacgg ccaggcgaa ttggggagc 360
 cccttatcca aggcacatc agccaccctt ttgattatct tggaaccaat cctttgaccc 420
 cgtattccgc gc 432

<210> 593
 <211> 614
 <212> DNA
 <213> Homo sapiens

<400> 593
 gaattcggca cgaggcgag agttgtcgct actggagaag tccctgggac tgagtaaggg 60
 gaataaatc agtgcctcagg gcgagcgaca gattccaggt ctccagacaa acaatggctc 120
 aagtctataca ggattgacta ctatagcagc tcatctatgt aagcaaggca acaagaata 180
 tttgtctggg agtactgcag aagaaaaagc aatcgttcag cagtgtttag aatacaggg 240
 cactcaagta gatgggcact ccagtataaa tgacatccac acactgttga aggatcttaa 300

ttcatatctt	gaagataaa	tctaccttac	agggataaac	tttacattag	cagatataact	360
attgtactat	ggacttcatc	gctttatagt	tgacctgaca	gttcaagaaa	aggagaaata	420
tcttaattga	tctcgctggt	tttgtcacat	tcagcattat	ccaggcatca	ggcaacatct	480
gtctagtgtt	ggctcttcac	aagaacagac	tatatactaa	ttccctctaga	aagctgtcca	540
ggccatcacg	aagatctatt	aaaaaatgtt	ttaaattgga	aaatgtactc	ttagaacacc	600
aggacttaac	ggta					614

<210> 594

<211> 336

<212> DNA

<213> Homo sapiens

<400> 594

gaattcggca	cgaggggcac	aacagagccg	ctccctctct	ctcgcccgcc	caccgggacg	60
gagagcgccc	gccggtgcat	ttccggcgac	acctcgcaat	cattctcgcg	gcttgcggcg	120
ccttctagac	agccggggcc	ttcgtgagaa	cggtgcaggg	ctggggtagt	ctcctgtctg	180
gacagagaa	agaaaaatgc	aggacactgg	ctcaagagtg	cctttgcatt	ggtttggtct	240
tggtaccaca	gcactgggtg	cttctggttg	gaatatttgc	tattgaaaag	caagcaagcg	300
tgccgtccct	ggctgcaggg	ctgctctttt	ggaagt			336

<210> 595

<211> 487

<212> DNA

<213> Homo sapiens

<400> 595

gaattcggca	cgagggtgact	gtgggaaact	cggaacaag	ctcacattct	cctgtgggaa	60
accttctagc	aacaggatga	gtctgcagtg	gactgcagtt	gccaccttcc	tctatgggga	120
ggctcttctt	gtgtgtcttc	tctgcattcc	cttcatttct	cctaaaagat	ggcagaagat	180
tttcaagtcc	cggctgggtg	agttgttagt	gtccatagc	aacaccttct	ttgtgggtct	240
cattgtcctc	cttgtgtctg	tggtcatcga	tgccgtgcgc	gaatttcgga	agtatgatga	300
tgtgacggaa	aagggtgaacc	tcagagaaca	ttccggggcc	atggagcact	tcacatgaa	360
gcttttcogt	gccacagagg	atctctacat	tgctggcttt	tccttctgct	tgctcctcct	420
gcttagacgc	ctggtgactc	tcatttcgca	gcaggccacg	ctgctggcct	ccaatgaagc	480
ctttaaa						487

<210> 596

<211> 418

<212> DNA

<213> Homo sapiens

<400> 596

gaattcggca	cgaggccgtg	acctgctagc	tgagcagcgc	ttccggggcc	gcgtgctgcc	60
ctcggaactg	gaactgctgt	tgacatgaa	caacgcgcgc	tacctgcgcg	aggccgactt	120
tgccgcgcgc	gcgcacctga	ccgcctgcgc	ggtgctcggg	gcgcctgagg	agttgcgggc	180
gcacacgggt	ctggcgccct	cgtgcgcgcg	ccaccgcgcg	tcgctgcgcg	tgctggagcc	240
cttcagggtg	cgcaccgcgc	tgctgggctg	ggacgacgcg	gcgttctacc	tgaggcgccg	300
ctttgtcagc	ctgcgggacg	gtttcgtgtg	cgcgtcgtg	cgttccgcgc	agcacctgct	360
gggcacctca	cccgagcgcg	tcgtgcagca	cctgtgccaa	cgcaaggttg	aacccct	418

<210> 597

<211> 418

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 205

<223> n = A,T,C or G

<400> 597

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gaattcggca cgaggctggc tcccaccgct gagttggctc aacagattga ggaagagacc 60
atcaagtgtt ggaaccgct aggtatccgc actgtggctg tcattgtgtg catctccaga 120
gaagaccagg gcttcaggct gcgcattgggt tgtgagattg tgattgctcc cctgggcgtt 180
tgattgatgt gctggaaaac ccgtnccttg tgcttgacct gctgtaccta tgtgtgtctg 240
gatgagcgca ataggatgat tgacatgggc tttagccag atgtccagaa gatcctggag 300
cacatgcctt gtcagcaacc agaagcccaa acacggatga agcttgagga cccctgagaa 360
aatgcttgg ccaacttttg agtcgggaaa acattaagta cccgcccaaa cagtcatt 418

```

<210> 598

<211> 266

<212> DNA

<213> Homo sapiens

<400> 598

```

gaattcggca cgagggtctc tcaactgagt cctactttta tgtcctgcct gtggtgagca 60
caaatgttta gcacatcaat ccccatittg tagacgaaga gacagagttg agtgacttgc 120
ccaaagcac agggccagtg aggagtttg caggtttgcc ctggcattaa aataataaac 180
attgaaatc agtcgattcc cctatggact cagttataga tctcatcagt tgaaggaaga 240
gagatgcctt ttctattca accttt 266

```

<210> 599

<211> 235

<212> DNA

<213> Homo sapiens

<400> 599

```

gaattcggca cgagggtctc tgcagccttt tcgctgggac tgcgcgacac cgcccccca 60
ccgggtgccc gctgtgtgac aggcgggtg ctgggcaacg tcocgcgagt gccctataag 120
gactgcggcg caataatgaa ggttctttta ctgaaggatg cgaaggaaga tgactgtggc 180
caggatccgt atatcaggga attaggatta tatggacttg aagccacttt gatcc 235

```

<210> 600

<211> 386

<212> DNA

<213> Homo sapiens

<400> 600

```

gaattcggca cgagggttcc tcgctgggac ccgggtgctg gtcaccgggg caggcaaaag 60
tataggcgcc ggcacgggtcc aggcgctgca cgcgcacggc gcgcgggtg tggctgtgag 120
ccggactcag cgggactctg acagccttgt ccgcgagtg ccggggatag aacccgtgtg 180
cgtggacctg ggtgactggg aggccacoga cggggcgctt gggcagcgtg ggcctcgttg 240
acctgctggt gaacaacgcc cgtctgcgcc ctgctgcagc ccttccctga ggtcaccaag 300
gaggcctctg acagatcctt tgaggtgaac ctgcgtgogg catccagtgt cacagattgt 360
ggcagggcct taatacccg gagtcc 386

```

<210> 601

<211> 406

<212> DNA

<213> Homo sapiens

<400> 601

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gaattcggca cgagggtgtg ctgctgtgct aagtcctcc cgtcccccgc tctcgcctca 60
ctaggagcgg ctctcggtgc agcgggacag ggcgaagogg cctgcgccca cggagcgcgc 120
gacactgccc ggaaggagacc gccacccttg cccctcagc tgcccactcg tgattccag 180
cggcctccgc gcgcgcaga tgccctcggc caccagccac agcgggagcg gcagcaagtc 240

```

```

gtccggaccg ccaccgcggt cgggttcctc cgggagttag gcggcccgcg gagccggggc 300
cgccgcgcgc gcttctagca ccccgcaacc ggcaccggcg ctgtccagac cgaggccatg 360
aagcagattc tcgggggtgat cgacaagaaa cttcgggaacc tggaga 406

```

<210> 602

<211> 365

<212> DNA

<213> Homo sapiens

<400> 602

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gaattcggca cgaggctcgc ctcaactagga ggggtctctg gtgcagcggg acaggggcga 60
gcggcctcgc ccacacggagc gcgcgacact gcccggaagg gaccgccacc ctggccccc 120
cagctgcccc ctctgtgatt ccagcggcct ccgcgcgcgc acgatgccct cgcccaacc 180
ccacagcggg agcggcagca agtcgtccgg accgccaccg ccgtcggggt cctccgggag 240
tgaggcggcc gcgggagccg gggcgcgcgc ccggttcta gcaccccgca accggcaccg 300
gcgtgttcca gaccgaggcc atgaagcaga ttctcggggg gatcgacaaag aaacttcgga 360
acctg 365

```

<210> 603

<211> 376

<212> DNA

<213> Homo sapiens

<400> 603

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gaattcggca cgaggctttg gccactcaga gcccccgggc cgcggctcgc gtacgcctga 60
aggcgggctg tcocggcggc cgtctctagc tccgcctccg ctacaggcccg tctccgggg 120
cttctcaatg gtttcccggt ggctctcaca tgggtttccc ggccggccct gcgcgcagc 180
caggagactt ccggagcctg gtgacgtcac agagcgaact tttctaccca aatacggcg 240
gggggaatag gctcgagggc ggggagcagt gacaattgct aggcggagac agtgacaggga 300
agagagacct tataaaggat caggactggc gggagggtatt taactgaagg gaatatctgc 360
ttactgttg caacca 376

```

<210> 604

<211> 385

<212> DNA

<213> Homo sapiens

<400> 604

```

gaattcggca cgaggctttg gtccgtcgct gcttcggtgt cctctgctgg cttccagca 60
gcggcctagc ggggaaaagta aaagatgtct gaatatatto gggtaaccga agatgagaac 120
gatgagccca ttgaaatacc atcgggaagac gatgggaagg tgcgtgctct caccggttaca 180
gccaggtttc caggggcggt tgggcttcgc tacagggaat cagtgtctca gtgtatgaga 240
ggtgtccggc tggtagaagg aattctgcac gccccagatg ctggctgggg aaatctggtg 300
tatgttttca actatccaaa agataacaaa agaaaatgg atgagacaga tgcctcatca 360
gcagtgaagg tgaaaagagc agtcc 385

```

<210> 605

<211> 395

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 375

<223> n = A,T,C or G

<400> 605

```

gaattcggca cgagggggag cggagagcgg accccagaga gccctgagca gccccaccgc 60

```

```

cgccgcccgc ctagttacca tcacaccccg ggaggagccg cagctgccgc agccggcccc 120
agtcaccatc accgcaacca tgagcagcga gcccgagacc cagcagccgc ccgcccgcgc 180
cccccccgc ccgcccctca gcccgcgcga caccagcccc ggcaactacg gcagcgccgc 240
aaggagcggt ggcggggcg gctcacatt cggcgggggc ttgcccgcgc ggacaaagaa 300
agggcattcg caacgaaggg ttttgggaaa caagtaaaat ggggtcaatt gtaagggaac 360
cggattttgg tttttnattca accagggaaa ttgac 395

```

```

<210> 606
<211> 282
<212> DNA
<213> Homo sapiens

```

```

<400> 606
gaattcggca cgagggcagg ggtggtcctg gctggcattg cctgagccgg cagtgatgaa 60
gtggggagct tgcccttgac agtggggggc tggctggggc cttaatgtga aaagacagt 120
gcaggcagct ggagtagagc gagccagca gccctaaaag gctgccttca tggccatcta 180
gccccagttc agggcagcat ccatagccca caagccagcg tgggtggggc ggggggtggtc 240
ccacagctgg gttccacctg aagagcctcc gtgcctcgga gc 282

```

```

<210> 607
<211> 615
<212> DNA
<213> Homo sapiens

```

```

<400> 607
gaattcggca cgaggccggt cggcctgggc aacctgcgct gaagatgccg ggaaaactcc 60
gtagtgcgc tggtttgaa tcagacaccg caatgaaaaa aggggagaca ctgcgaaagc 120
aaaccggagg gaaagagaaa aaagagaagc caaaatctga taagactgaa gagatagcag 180
aagaggaaga aactgttttc cccaagcta aacaagttaa aaagaaagca gagcctctctg 240
aagtgcacat gaattctcct aaatccaaaa agggcaaaaa gaaagaggag ccattctcaaa 300
atgacatttc tctaaaaacc aaaagtttga gaaagaaaaa ggagccattt gaaaagaaag 360
tggtttcttc taaaaccaaa aaagtgcaca aaaaatgagga gcctctctag gaagaaatag 420
atgctcctaa gcccaagaag atgaagaaag aaaaggaaat gaatggagaa actagagaga 480
aaagccccc actgaagaat ggatttctct atcctgaacc ggactgtaac cccagtgaag 540
ctgcagtgga agaaagtaac agtgagatag agcaggaaat cctgtggaac aaaaagaaag 600
cgctttctct atttt 615

```

```

<210> 608
<211> 316
<212> DNA
<213> Homo sapiens

```

```

<400> 608
gaattcggca cgaggagaaa gggaaaaaag gcgtaaaagc agacatgaag caagtggggt 60
tgcaaggaga ccagatccag attctgatga agatgaagat tatgagcgag agagggaggaa 120
agaagatgat ggcggagctg ccattgcccc acccaactct ctggtagaga aagacaaaga 180
gtttaccoga gattttcctt atgaagaagc actcaagacc tcgtatcacag tctttccaag 240
cagcccttcc ttccccagtg gtaccgaagg aaccaagaac agacccgaga atcttccacc 300
cggaccctta gcaaac 316

```

```

<210> 609
<211> 393
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 267

```


<223> n = A,T,C or G

<400> 609

```

gaattcggcga cgaggggtgaa accaacttat tgggctcaat cccatttggt cacaggatac 60
tgtacgtatc ttcttttcca gagatttgat atcaccocaga caccgccagc atacataaac 120
gtgttaccag gtttgcccca gtacaccagc atatatcac ccttgccagc cctttctcct 180
gaatatcagc taccaagatc agtaccagtg gtgocgtett ttgtagccaa tgacagagca 240
gaaaaaaatg ctggctgcct attttgnggg gcaattcattt tgaaatggct tgagaaatgg 300
ttggctgggt caccocgaat tggcctctctt gaaaaccaca agaattccctt tgggaagggg 360
ctctcttttg gggaaaaataa tcttggttaa aag

```

<210> 610

<211> 454

<212> DNA

<213> Homo sapiens

<400> 610

```

gaattcggcga cgagggcagca atgcggtaga tatgacgtaa acaaaattata attaagctag 60
tggaactaca gagatcaaaa gaactgcaca ttgcattctg gagcatgaga aatcattttt 120
tttttcatga tgtctaactc tactgaattt attcaatgga gataacagaa agatgattat 180
atatgattaa attacttcca gtattagcag atgcttattt aaatacttgc ttgttctttc 240
tgcaattcca catagaaatta aggcaatagt ttaaaagaaa atttataaaa taacttttct 300
agcattttaa tgtagacctg tgaattctaa cacatttgca gtgtagccat cctaattgact 360
aacacagact gaacaaaatc caacttgcaa aaacgatgca atataaatat caatocacaa 420
taataggtag tctcactttt aaaaacctgt gtcct

```

<210> 611

<211> 613

<212> DNA

<213> Homo sapiens

<400> 611

```

gaattcggcga cgaggtgcgc tcttcgttgc ccagtttccg ctccagtgggc ggcgtctccgc 60
cccccccaca ccagtcgccg tgcattctcg gccgggctct aggcgccatg gctcccgcgc 120
ggagggaagcg taaggctgag gccgcggtgg tcgcgctagc cgagaagcga gagaagctgg 180
cgaaacggcgg ggagggaatg gaggaggcga ccgttgattt cgagcatttc actagctgac 240
gcgtctatgg gcgcaacgcc gcggccctga gccaggcgct gcgcctggag gccccagagc 300
ttccagtaaaa ggtgaaccgc acgaagcccc ggaggggcag ctctgaggtg acgctgctgc 360
gcccgagcgg cagcagtgcg gagctctgga ctgggattaa gaagggggccc ccaacgcaaa 420
tcaaatctcc tgagcctcaa gaggtggtgg aagagttgaa gaagtaacct tcgtagggag 480
atttgggtag aagccctcat gctgagcttt gtgtccctgg tgatggtgga acattaatga 540
tggaacatgg ccaaaactta gtcctgatcc tgaagccatg gttttctccc tggcagaata 600
gaaggttcat tat

```

<210> 612

<211> 313

<212> DNA

<213> Homo sapiens

<400> 612

```

gaattcggcga cgaggcgaga acggggcagcg ggagcagcag cctcaaacgc cgggcagcga 60
gcagcaacagc ccccaacagc agcgcggggc gcgcaaggag gccgcgggga agagcagcgg 120
ccccacctcg ctgttcgcgg tgacggtggc gccgcccggg gcgagggcag gccagcagca 180
ggcggggaggt aagaagaagg cggaaggcgg cgagggcgcc ggtgcgccgc gggtccggc 240
ggcgggggac gccaaaacag aacagaaaagg cggagatata aagagggggt ttaaaagacc 300
accacaagat cat

```

<210> 613

```

<211> 557
<212> DNA
<213> Homo sapiens

<400> 613
gaattcggca cgagggcctgg ccggggagac gagttgcatg tgttgggtca gctggcgata 60
gcggcggggag cggagccggcg ggggcctgtg cgaccgcctg ggtttgtgaa atggctgctg 120
acattttctga atccagcggg gctgactgca aaggagaccc aaggaacagt gccaaagttag 180
atgcgcgata cccacttcga gtcctttatt gtggagctcg ttcatatacca acagagtagt 240
gtgaatatat gctgatgttt gctaaatgta gacaatggtt agagaagaat ttcccaaatg 300
aatttgcgaaa acttactgta gaaaattcac ccaacaaga agctggaatt agtgagggtc 360
aaggaaacagc aggggaagaa gaggagaaga aaaaacagaa gagaggttga aggggtcaaa 420
taaaacaaaa aaagaagacc gtaccacaaa aggttactat agccaaaatt cccagagcaa 480
agaagaataa tgtgacaaga gtatgtggcc ttgcaacttt tgaattgatg cttaaagaag 540
cacaaagatt ttttgtct                                     557

<210> 614
<211> 627
<212> DNA
<213> Homo sapiens

<400> 614
gaattcggca cgaggtctcac taggagcggc tctcgggtgca gcgggacagc gcgaagcggc 60
ctgcgcccac ggagcgcgcg acactgcccg gaagggacgc ccacctctgc cccctcagct 120
gccactcgtg gatttccagc ggccctccgc cgcgcacgat gccctcggcc accagccaca 180
gcgggagcgg cagcaagtcg tccggaccgc caccgcgcgc ggggttcctcc gggagtgagg 240
cggcgcggcg agccggggcc gccgcgcgcg cttctcagca ccccgcaacc ggcaccggcg 300
ctgtccagac cgaggccatg aagcagattc tcgggggtgat cgacaagaaa ctctggaaacc 360
tggaagaaga aaagggtaag ctgtgatgatt accaggaacg aatgaacaaa ggggaagagg 420
ttaatcaaga tcagctggat gccgtttcta agtaccagga agtcacaaat aatttggagt 480
ttgcacaaga attacagagc agtttctatg cactaagtca agatatcag aaaaacataa 540
agaagacagc acgtcgggag cagcttatga aaaaaaagc gaacagaaac gtttaaaaaa 600
ttgtacttga actacagtat tgttttgg                                     627

<210> 615
<211> 474
<212> DNA
<213> Homo sapiens

<400> 615
gaattcggca cgagggcgag aacgaccccc ggaccgacca aagcccgcgc gccgctgcat 60
cccgcgtcca gcacctacgt cccgctgcgc tcgccgcgcg caccatgccc aagagaaaag 120
ctgaagggga tgctaaggga gataaagcaa aggtgaagga cgaaccacag agaagatccg 180
cgaggtttgc tgctaaacct gtcctcccaa agccagagcc caagcctaaa aaggcccctg 240
caaaagaagg agagaaggta cccaaaggga aaaaaggaaa agctgatgct ggcaaggagg 300
ggaataaccc tgcagaaaat ggagatgcc aacagacca ggcacagaaa gctgaagggt 360
ctggagatgc caagtgaagt gtgtgcattt ttgataaact tgtacttctg gtgactgtac 420
agtttgaatt actatttttt atcaagtttt ataaaaatgc agaatttttg tttta 474

<210> 616
<211> 576
<212> DNA
<213> Homo sapiens

<400> 616
gaattcggca cgaggggaat ctgtgaagct cactactgga ccaacaacg ctggagctca 60
aagtgtttct tcatgtggga cttctggcct tcagttttct gcacagacag ccttggcaga 120
acaacagcca aaaagcatga aaagcccagc ttctccagag cctgtgttct gtgctaactct 180

```

ttgccctatg	gtagaaatc	cacctaaaga	tataatggca	gaattggagt	cagaggatat	240
cttgatccct	gaagaatctg	taattcagga	ggaattgca	gaagaggtag	agactagtat	300
ctgtgaatgc	caggatgaaa	atcataagac	aatacctgaa	ttttctgagg	aggctgaaag	360
tctaaccaat	tctcatgaag	aaacccaaat	agcacctcct	gaagataact	tggaaatcctg	420
tgttatgatg	aatgatgttt	tagaaacttt	gcctcatatt	gaagttaaga	tagaaggaggaa	480
gtcagaatca	ccccgggaag	aaatgacagt	tgttatcgat	cagttagaag	tctgtgactc	540
tctatttctc	tccatttcac	ctatgactca	tgtcag			576

<210> 617

<211> 514

<212> DNA

<213> Homo sapiens

<400> 617

gaattcggca	cgaggcagag	aggtttgcc	aagagcgcag	gctgagaata	tggagagact	60
atgttgctcc	cacagctaata	ttggaccaaa	aggacaagca	gtttgttgcc	aaggtgatgc	120
aggtttctgaa	tgtctgatgcc	attgtttgtga	agctgaactc	aggcgattac	aagacgattc	180
acctgtccag	cctccgacca	ccgaggctgg	agggggagaa	caccacaggt	aagaacaaga	240
aaactgcgtcc	cctgtatgac	attccttaca	tgtttgaggc	ccgggaattt	cttcgaaaaa	300
agcttattgg	gaagaaggtc	aatgtgacgg	tggaactacat	tagaccagcc	agcccagcca	360
cagagacagt	gcctgccttt	tcagagcgta	cctgtgccac	tgaccacata	aggaggaataa	420
acattgctga	ggctctgtgc	agcaaaagtc	tagccacagt	gatcagatac	cggcaggatg	480
atgaccagag	atcatcacac	tacgatgaac	tgtc			514

<210> 618

<211> 456

<212> DNA

<213> Homo sapiens

<400> 618

gaattcggca	cgagggggcg	ggcaggcggg	caggccggca	ggcgggtgcg	cggagggctg	60
gtgcccgcga	gcaggtgggc	gggtgctggt	tgccggcgcc	ggctgggccc	ggggctgccg	120
gctgcgctcg	ggcgcgtggc	ggcggccgtg	cgggcacgcc	atggacttca	acatgaagaa	180
gctggcgctg	gacgcgggca	tcttcttca	ccggcggtg	cagttcaagg	aggagaatt	240
tgccagggct	gagaagactg	agcttgatgc	ccactttgaa	aaccttctg	cccgggcaga	300
cagcaccagg	aactggacag	agaagatctt	gaggcagaca	gaggtgctgc	tgacagccaa	360
ccccagtgc	cgagtgagg	agttcctgta	tgagaagctg	gacaggaagg	tccctcaag	420
ggtcaccaac	ggggagctgc	tggtctcagta	catggc			456

<210> 619

<211> 262

<212> DNA

<213> Homo sapiens

<400> 619

gaattcggca	cgaggcagaa	gcccctagct	cctctgagcc	tcattggggc	agaggaagca	60
gtagtctggg	cgccaagaaa	tgctacaagc	tgagagaatga	gaagctgttc	gaagatttc	120
ttgaactttg	taagatgcag	acagcagacc	accctgaggt	ggtcccatc	ctctataacc	180
ggcagcaacg	tgcccactct	ctgtttttgg	cctcggcgga	gttctgcaac	atcctctcta	240
gggtctctgc	tcggggcccg	ac				262

<210> 620

<211> 205

<212> DNA

<213> Homo sapiens

<400> 620

gaattcggca	cgaggattta	tgggccactg	catatgcccg	ctgcagccct	gggatcagct	60
------------	------------	------------	------------	------------	------------	----

```

ggaagctgccc tgctatctcc tgcccaatcc ccagaaaccc tgattcaggt ctgcaggctc 120
ctgcgggctcc accaggctgc tggctccggg accatgtaaa cctaggaagg taaaggagca 180
ggcaacctcc tcgtggcctg tgtgt

```

<210> 621

<211> 483

<212> DNA

<213> Homo sapiens

<400> 621

```

gaattcggca cgaggcctgg ccgggacctg gtggggcctg aggatgagga cggctgggag 60
acgcgagggg accgcaaggc ccggaagccc ctggtggaga agaagcggcg cgcgcggatc 120
aacgagagcc tgcaggagct gcgctgctg ctgcggggcg ccgaggtgca ggccaagctg 180
gagaacgccg aagtgtctga gctacgggtg cggcgggtcc aggggtgtgt cgggggcccgg 240
gcgcgcgagc gcgagcagct gcaggcggaa gcgagcgaac gcttcgctgc cggctacatc 300
cagtgcatgc acgaggtgca cacgttcgtg tccacgtgcc agggccatoga cgtaccggtt 360
ctgccgagct cctgaacctat ctgctcaggt ccatgccgct gcgtgagggc agcaacttca 420
ggatctgctg ggggacgccc tgcggggcca cctaaatccc ctggacggaa tggctggctg 480
cgg

```

<210> 622

<211> 562

<212> DNA

<213> Homo sapiens

<400> 622

```

gaattcggca cgagggcgct gcgggttaga gccgggttgc gggagacccc aggttcgggtt 60
gggattccca gccagaacgg agcttaagcc gggcaggcga gcgaatgacg gagttagcag 120
ctgcacggcg gcgtgctgag ctgttgagga cgtgtgcccg cgcgtcccca ggccgccccg 180
aggctcgggg tcttcgaagg ataactggcg ccggggggcg aacagcgggg gcacaagggg 240
cgctgccgaa gtgcaaggcc acggccagag ctccagcccg acgcgctgtc tggagtctga 300
ggttggcgcc gtttggggcg ggggtctgag gcttgggcgc tgcttgggac gagcggagat 360
cgggggtttgc tccctgtccc cgtcaggac cctgacgtgg ctgaagcggc ccggggagca 420
tgagcggcag cgcgtggacg tcaaggtggt gatgctgggc aaggagtagc tgggcaagac 480
tagctcgggt ggcgcctacg tgcaagaccg ctttctgggt gggccttatc agaacacctat 540
cggggccgac tctgtggcca ag

```

<210> 623

<211> 645

<212> DNA

<213> Homo sapiens

<400> 623

```

gaattcggca cgaggctgag agagagcaca gcctggtggg tcttggggtc tacggcctag 60
ggggccgggga agtttgccgc gccgcgacca gtgctgcgat ccgagacggg gctccagccc 120
cgaggaccag gggctggggc ggctgcgcta cggaaacccc cgggcccagca gcagtcgtct 180
cgcgtccctcc tcttgggaaa agtgtttaag ctctctatcc tgcactctac aagcacctgg 240
tttatgcagt tattcgtttc ttacgggaac aaagtacgat ggacacttac acctcggtat 300
aacaagaaaag tttggaagtt gcaattcagt ctgtggagac agtttttaag atcagcccag 360
aagatacaca cctagcagtt tcacagcctt tgacagaaat gtttaccagt tcttctctga 420
agaatgacgt tctgcccctt tcaaaactcag tgctgaaga tgtgggaaaa gctgaccaat 480
taaaagatga aggcaataac cacatgaaaag aagaaaatta tgctgctgca gtggattgtt 540
acacacagcg aatagaattg gatcccaata atgcagttta ctattgcaac agggctgctg 600
ctcagagcaa attaggtcac tacacagatg cgataaagga tctgtg

```

<210> 624

<211> 521

<212> DNA

<213> Homo sapiens

<400> 624

```

ctgagcgtct ctgcttagcc gcggtcatga gccggcacag ccggtctgag aggcagggttc 60
tgagcctgta ccgcgatctg ctgcgcgcgc gccgtgggaa gccggcgccc gaggcgcgag 120
tgcgggcaga gttccggcag catgcggggc tgccgcggtc cgacgtgctg cgcctcgagt 180
acctgtaccg ccgcggggcg ccgcagctgc agctgctacg ctccggggccac gccaccgccca 240
tgggcgcctt tggcgcgcgc cggggccccc gcggggagcc tggcggcggtg ggttccccag 300
ctgacacacg cgacagtgca aggaaccccc acgacagcac gggggcaccc gagacccgcc 360
ccgacggagc gtgacaggcg aagagccgaa ctgcctcgat gccgtgtgtg agccaggag 420
ctgcctcgac tgcattgggg gactggggaa ccgcgctaag gtgagaggtc ttaagagact 480
agcttgacga attggggatg tcagagactc ctctctggcg a 521

```

<210> 625

<211> 375

<212> DNA

<213> Homo sapiens

<400> 625

```

gaattcggca cgaggagaa atgcagtgta ggaaccggca tgcgcataac ctccaggatat 60
aaataatgct gaagcagagt tacgtttttt ttgtttgtgt tttttttgtt ttgttttttt 120
taggtttccg tgtgttttcta ttgagctgct cagtgcgccg cttagaagac cagggaaaag 180
agtcacaggt cgtatgctgg aggccttgag cgcggccacc tggcgcggct ccctcctcgt 240
cggttgtgtg ttgcgggtgga cattgcagcg cggctggagg gggctccttag acaaggtgca 300
agacaaacag aagagggcata gtgggggtcaa actcctactg cctgcctgat ttctgtccac 360
aggacaaatt cacca 375

```

<210> 626

<211> 628

<212> DNA

<213> Homo sapiens

<400> 626

```

gaattcggca cgaggaaaaa ggttcgctat tcaacttgacc cggagaaccc caccgaaatca 60
tgcaaatcaa gaggttccaa tcttcgtgtt cactttaaga acactcgtga agctgctcag 120
gccatcaagg gtatgcatac acgaaaaagcc acgaagtatc tgaagaagtgt cactttacag 180
aaacatgtgt taccattccg acgttacaat ggtggagttg gcaggtgtgc gcaggccaag 240
caatggggct ggacacaaag tcgggtggccc aaaaagagtg ctgaattttt gctgcacatg 300
cttaaaaaag ccagagagtaa tgcgtgaactt aaggggttag atgtagatct tctggtaatt 360
gagcatatcc aagtgaacaa agcacctaag atgcgccgcc ggacctacag agctcatggt 420
cggattaacc catacatag ctctccctgc cacattgaga tgatccttac ggaaaaggaa 480
cagattgttc ctaaacccga agaggaggtt gccacaaga aaaagatatc ccagaagaaa 540
ctgaagaac caaaacttat ggcacgggag taaattctca ttaaaaaaaa tgtaattaaa 600
aggaaaaaaa aaaaaaaaaa aactcgag 628

```

<210> 627

<211> 645

<212> DNA

<213> Homo sapiens

<400> 627

```

gaattcggca cgaggagaaa acgaagcagc gttggaaaaa ggaattaaaa atgaggaaaa 60
cacagaaaca ggtgctgaat ctctcgagaa cgctgatgat cccaacaaa atacaagtga 120
aaacgcagat ggtccaaagt atgagaacaa ggacgactat acaatcccag atgagtata 180
aattggacca tctcagccca atgttctcgt tggatagac tatgtgatac ctaaaacagg 240
gttttactgt aagctgtgtt cactctttta tacaatatga gaagtgcga agaatactca 300
ttgcagcagc ctctcctcatt atcagaaaat aaagaaattt ctgaataaat tggcagaaga 360
acgcagacag aagaaggaaa ctaaatagat gcaaggagat ttaatatatt caaagaaaa 420

```

```

aatggttcttt tgtttttaat gttaaccttt tttaaatata atactgatag ttagaagaaa 480
actattgtact tcttttggttt tagtgggagaa ataatagatg tctgttcatg tgttaagtgt 540
tatagcaaaa aaaaatacaca tatggttaag ttaatgaata gtttttggtt tatcagaatg 600
gcaacagaca gaagtacttt gtagagattg acttctoaa gctctt 645

```

```

<210> 628
<211> 625
<212> DNA
<213> Homo sapiens

```

```

<400> 628
gaattcggca cgaggggatt cagcagcctc ccccttgagc cccctcgctt cccgacgttc 60
cgttccccc tgcccgcctt ctcccgcac gccttcgca ggccgtttcc 120
accgagaaa aggaatcgta tctgtatgcc gctatccaga acctccactc ttccgacccc 180
tttgcgtatg caagtaaggg tcatgacctg ctctctgctg gcaactgagga ttatatccat 240
ataagaatcc aacagagaaa cggcaggaag acccttacta ctgtccaaag tatcgctgat 300
gattacgata aaaagaaact agtgaaggcg ttttaagaaa agtttgcctg caatggtaact 360
gtaattgagc atccggaata tggagaagta attcagctac agggtagcca acgcaagaac 420
atatccagat tctctgata gattggaact gctaaggacg atcagctgaa ggttcatggg 480
ttttaagtgc ttgtggctca ctgaagctta agtgaggatt tcccttgcaat gactagaatt 540
tcctctctct tccttgcac aggtttaaaa acctcacagc ttgtataatg taaccatttg 600
gggtccgctt ttaacttggg ctatg 625

```

```

<210> 629
<211> 545
<212> DNA
<213> Homo sapiens

```

```

<400> 629
gaattcggca cgaggggagc caggaggtca aggtacagt gaggcgtgat catgccactg 60
cactccagcc tgggtgacag agcagagacc tgtctcttaa caacaaaaac catgagcgcc 120
agccccacg tctgtgtagg tggtaaaaga tctccaagat caaacccacg cagtgtctgag 180
agottggcct gattctaggg ctggggcttg agaaactgct agagatgatg ccgatagcca 240
gtgtgatccc cctgccccta tggtaagggt cagagtgcag actggaaccc tcccctcccc 300
aaagattcac acctgtgggg ctgagtgagg tcatagtgtc cccaagtctt gagagctggg 360
tgtctggctt cagcctccag ctctcagagt tctgatgcag tcagotgagt tccctgcta 420
ttcttcaag cactaggagg aagggtggtg ggttgctggg aacagaccg agcgcctccc 480
cccccagat tcacagagca cactcccggg ggggatactt taatccggag gccgtgacgc 540
ctgct 545

```

```

<210> 630
<211> 605
<212> DNA
<213> Homo sapiens

```

```

<400> 630
gaattgggca cgaggcgggc cgcagctttt cggttcacag cgggcaggga aagccgcggg 60
aagggtactc caggcgagag gcggacgcga gtctgtctgg caggaaaagt gactagctcc 120
ccttcgttgt cagccaggga cgagaacaca gccacgctcc caccggctgc ccaacgatcc 180
ctcggcgccg atgtcgcccg ccggtgcccg aggcctgcgg gccacctacc accggtccct 240
cgataaagtg gagctgatgc tgcccagaaa attgaggccg ttgtacaacc atccagcagg 300
tcccagaaca gttttttctt gggctccaat tatgaaatgg gggttggtgt gtgctggatt 360
ggctgatatg gccagacctg cagaaaaact tagcacagct caatctgctg ttttgatggc 420
tacagggttt atttggctaa gatactcact tgtaattatt ccaaaaaatt gttgtctgtt 480
tgctgttaat ttcttctgtg gggcagcagg agcctctcag ctttttcgta tttggagata 540
taaccaagac taaaagctaa agcacacaaa taaaagagtt ctgatcacct gaacaactca 600
gatgt 605

```

<210> 631
<211> 364
<212> DNA
<213> Homo sapiens

<400> 631
gaattcggca cgaggcgccac acgagaacat gcctctcgca aaggatctcc ttcattccctc 60
tccagaagag gagaagagga aacacaagaa gaaacgcctg gtgcagagcc ccaattcccta 120
cttcattgat gtgaatgcc caggatgcta taaaatcacc acggtcttta gccatgcaca 180
aacggtagtt ttgtgtgttg gctgctccac tgtctctcgc cagcctacag gaggaanaagc 240
aaggcttaca gaaggatgtt ccttcaggag gaagcagcac taaaagcact ctgagtcaag 300
atgagtgagg aaccatctca ataaacacat ttgggataaa aaaaaaaaaa aaaaaaaaaact 360
cgag 364

<210> 632
<211> 545
<212> DNA
<213> Homo sapiens

<400> 632
gaattcggc acgaggggac cccagagagc cctgagcagc cccaccgccc ccgccggcct 60
agttaccatc acacccccggg aggagccgca gctgcccagc ccggcccagc tcaccatcac 120
cgcaaccatg agcagcgagg ccgagaccca gcagccgccc gccgcccccc ccgccgcccc 180
cgccctcagc gccgcccaga ccaagcccgg cactacgggc agcgccgccc ggagcggtag 240
cccgggcggc ttaacattcg ccgcccctgc ccggggggac aagaaggcca tcgcaacgaa 300
ggttttggga acagtaaaat ggttcaatgt aaggaaacgga tatggtttca tcaacaggaa 360
tgacaccaa gaaagtgtat ttgtacacca gactgccata aagaagaata accccaggaa 420
gtaccttcgc agtgtaggag atggagagac ttgtggagtt gatgttgttg aaggagaaaa 480
gggtgcggag gcagcaaatg ttacagggtcc tgggtggtgt ccagttcaag gcagtaaat 540
tgca 545

<210> 633
<211> 506
<212> DNA
<213> Homo sapiens

<400> 633
gaattcggca cgagggtggt cactccgcca ccgtagaatc gcctaccatt tgggtgcaagc 60
aaaaagcaat cagcaattgg acaggaaaag aatggcattg aagcagattt ccagcaacaa 120
gtgctttggg ggattgcaga aagtttttga acatgacagt gttgaactaa actgcacaaat 180
gaaatttgct gtctacttac caccaaaggg agaaacagga aagtgccttg cactgtattg 240
gctctcagaa catgtgtctg ttgtcattgc tccagatacc agccctcgtg gctgcaatat 300
taaaagttaa gatgagagct gggacttttg cactggtgct ggattttatg ttgatgccac 420
tgaagatcct tggaaaacca actacagaat gtactcttat gtcacagagg agcttcccca 480
actcataaat gccaattttc cagtgg 506

<210> 634
<211> 485
<212> DNA
<213> Homo sapiens

<400> 634
gaattcggca cgaggagatt gtgggcccag gagccctgag gctgcccgca ggtgaactga 60
gtgcccagca gctgagaccg gcccccaccc gtccctgagca tagctctgta ggcagtgcgg 120
cgatagcctg catagtgtcc tggcgctggg agttcccccgt ggacagagcc agagggcagt 180
ggcgctccct gtcagagctg gatcaggccc cccatcgagg agggaggccc gacggaggcc 240
cgagagcctc cccaggcctc ttctgtggaa ggcccagta ccaactcgtag gaggtctcag 300

```

ctctggcatg gctgcccgg atgtggccga gggggcttca cctgtgtcc ttaggagggg 360
gtggccttga ggcaagagcc gtgcctcact gaccccacgg ggcctcactc tcccattgga 420
atgggctgta tgtcctgcc caacttgccc cgcagcaggg cagaccccc taccctggcc 480
cagag

```

```

<210> 635
<211> 615
<212> DNA
<213> Homo sapiens

```

```

<400> 635
gaattcggca cgaggcttac aaggaaaatg ctgacttatg accggcgctc tgagcctcag 60
gttggggagc gagtgccata cgtcatcatt tatgggaccc cgggagtagc acttatccag 120
cttgtaaggc gccagtgga agtcctgcag gacccaactc tgagactgaa tgcactttac 180
tatattacca agcaaatcct tccacccttg gcaagaatct tctcacttat tggatttgat 240
gtcttcagct ggtatcatga attaccaagg atccataaag ctaccagctc ctgcggaagt 300
gaacctgaag ggcggaaagg cactatttca caatatttta ctaccttaca ctgtcctgtg 360
tgtgatgacc taactcagca tggcatctgt agtaaatgtc ggagccaacc tcagcatgtt 420
cgagtcaccc tcaaccaaga aatccgggag ttgggaactc aacaggagca acttgtaaat 480
atatcaaga actgtacagg ttgctttgat cgacacatcc catgtgttcc tctgaactgc 540
ccagtagctt tcaaaactct ccgagtaaat agagaattgt ccaaggcacc atatcttcgg 600
cagtatttaa accag

```

```

<210> 636
<211> 504
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 12
<223> n = A,T,C or G

```

```

<400> 636
gaattcggca cnaggccaaa acctgtttgg gaagcatatt acagaaatga tttaagtagc 60
cctgtattct gtagtctaaa aaacaaaaac aaacaaaaaa acaaaaaaaa aaaaaacaaa 120
ccagaaacag gtaaaaacgc tatgtgatta aaatatattta attcttcagc aattaccogg 180
ttttctaaat tgaatcatgc atctatttat aattctaat attttgtaa agaagacaaa 240
attatgaatc ttaagtattt gctccatctt tttctctgta atgtgtggaga ggcctgccat 300
aatcactctc cacatggagc caagtttaat gtttctagtt cacattttgt acttctgtca 360
tgcttatttc aaactccctg agtgatgggt aagaaatcaa acattgcctc agtggtatca 420
agagaacttt ggtggtggtt tcttcagaat catgaagtcc ttttgccaga taaatatttt 480
gatattattt tcttttttaa tata

```

```

<210> 637
<211> 449
<212> DNA
<213> Homo sapiens

```

```

<400> 637
gaattcggca cgagggtttaa accctgcgtg gcaatccctg acgcaccgcc gtgatgccca 60
gggaagacag ggcgagctgg aagtcacaact acttccctaa gatcatccaa ctattggatg 120
attatccgaa atgtttcatt gtgggagcag caaatgtggg ctccagcagc atgcagcaga 180
tcgcacatgc ccttcgcggg aaggctgtgg tgctgatggg caagaacacc atgatgcgca 240
aggccatccg agggcactct gaaaacaacc cagctctgga gaaactcgtg cctcatatcc 300
gggggaatgt gggctttgtg ttcaaccaag aggcactcac tgagatcagg gacatgttgc 360
gtgccaataa ggtgccagct gctgcgctgc tggtagccatt gcccatgtg aagtcactgt 420
gcagccccag aacactggctc tcgggcccc

```


<210> 638
 <211> 524
 <212> DNA
 <213> Homo sapiens

<400> 638
 gaattcggca cgagggttga ttatggcaag aagtcacaagc tggagttctc catttaccoca 60
 gcacccaccag ttccacacgc tgtagttgag cctacaaact ccactctcac caccacacacc 120
 accctggagc actctgattg tgcccttcac gtagacaatg aggccatcta tgacatctgt 180
 cgtagaacc tcgatatcga gcgcccaacc tacactaacc ttaaccgcct tattagccag 240
 attgtgtcct ccatcactgc ttccctgaga ttgatggag cctggaatgt tgacotgaca 300
 gaattccaga ccaacctggg gccctacccc cgcctccact tcctctggc caccatctgccc 360
 cctgtcatct ctgctgagaa agcctaccat gaacagcttt ctgtagcaga gatcaccaat 420
 gcttgctttg agccagccaa ccagatgggt aaatgtgacc ctgcgccatg taaatacatg 480
 gcttgctgcc tgtgttaccg tggtagctg gttcccaaa atgt 524

<210> 639
 <211> 524
 <212> DNA
 <213> Homo sapiens

<400> 639
 gaattcggca cgagggttgc tcaactgagt cctactttta tgcctgcct gtggtgagca 60
 caaatgttga gcacatcaat cccacttttg tagacgaaga gacagagttg agtgacttgc 120
 ccaagacac agggccagtg aggagttgtg cagggtttgcc ctggcattaa aataataaac 180
 attgaaatc agtcgattcc cctatggact cagttataga tctcatcagt tgaaggaga 240
 gagatgcctt ttccattcca gcccttttgc aatccttcca tctagaggag atgtatctta 300
 taatatcctc aaaggcactc tgttgcta atgcagccttg atgaggtccc atatagctca 360
 ttggagacag agctagtctt ggaaactgaa aatgttgac cagagctgc ccatctcctt 420
 agctctgggt ccagctgtgg tctgggtgg aatggagctc gaccttgcct cacacagggc 480
 ctgtctgttc tcatgtgtgc catccacac ctggagctgc tcat 524

<210> 640
 <211> 524
 <212> DNA
 <213> Homo sapiens

<400> 640
 gaattcggca cgaggggaga ctacaaggat agggccagga gtaattggagt ccaagagaa 60
 acgagcagta aacagtctca gcatggaaaa tgccaaccaa gaaatgaag aaaaggagca 120
 agttgtcta aaaggggagc ccttgccctt gctggtgaat actgtgtgcc 180
 tagaggaaat cgtaggcggg tccgcgttag gcagccatc ctgcagtata gatgggatat 240
 gatgcatagg cttggagaa caccaggcaag gatgagagaa gagaatattg aaaggattgg 300
 ggaggagggt agacagctga tggaaaagct gagggaaaag cagttgagtc atagtctgcg 360
 ggcagtcagc actgaccccc ctccaccatga ccactcatgag gagttttgcc ttatgcctcg 420
 aatcctgatg gtttccctaa agttattacg gaaacagacc cctgctttcg aatttcatat 480
 ttcatgatgt gccctgtttg taaaccttta cctgtcactt gttt 524

<210> 641
 <211> 523
 <212> DNA
 <213> Homo sapiens

<400> 641
 gaattcggca cgaggcctcg tgccgtgccc cccgaggtat gcggggctac tcgctgctcg 60
 atgttccctc cgaagggctg gacaaggctc cggagccctg tagctgcctc ccctaggagc 120
 ccgggtgtct cactggccga ggtgcccacc ccgcagcatt ctgggagtg tagttttctt 180

```

ccttcagggtt cattcctggc tggccagtc ccaagactgg cgagactacg attccagac 240
gcccaagcga cgtcccggtc acgtggcgcc aaggacgctg gcccggtggg cgggggcccg 300
cagggtgctc gcagccgtct gtgccacca gagccggcgg gcgctaggt cccgggagac 360
cctgctatgg tgcgtgcggg cgcgctgggg gctcatctcc cgcgctccgg cttgggatcc 420
ttcggggacc tgaagaagat gaacaagcgc cagctctatt accagggttt aaacttcgac 480
atgatcgtgt cttctgcact catgatattg aaaggcttga tcg 523

```

<210> 642

<211> 524

<212> DNA

<213> Homo sapiens

<400> 642

```

gaattcggca cgagggtgaa ggtgtgtgtc agcttttgcg tcaactcagc cctgggcgct 60
gcttgctaaa gagccgagca cgcgggtctg tcatcatgtc gcgttacggg cggtacggag 120
gagaaaccaa ggtgtatggt ggtaacctgg gaactggcgc tggcaaaagg gagttagaaa 180
gggctttcag ttattatggt cotttaaagaa ctgtatggat tgcgagaaat cctccaggat 240
ttgcctttgt ggaattcgaa gatcctagag atgcagaaga tgcagtagca ggactggtagt 300
gaaagtgatg ttgtggctcc cagtgagggg ttgaactatc gacaggcatc cctcggagat 360
cacgttttga tagaccacct gcccgacgtc cctttgatcc aaatgataga tgcattagbt 420
gtggcgaaaa gggacattat gcttatgatt gtcatcgtaa cagccggcga agaagaagca 480
ggtcacggtc tagatcacat tctgatccca gaggaaggcg atac 524

```

<210> 643

<211> 523

<212> DNA

<213> Homo sapiens

<400> 643

```

gaattcggca cgagggtgaa caccagaata ttggcgaag ggagaaaaaa aaagcagcga 60
ggcttcgctc tcccccctct cctttttttt tctctctctt ccttccctct ccagcccccg 120
ccgaatcatg tcatgatgtc caaagcacac gaactcgttc tcagtgtctg acatcttgag 180
tcccttgagg gaaagctaca agaaagtggg catggagggc ggcggcctcg gggctccgct 240
ggcggcgctac aggcagggcc agggggcacc gccaacagcg gccatcgacg agcacgcgct 300
ggggcaccac ggcgccgctoa ccgcccgccta ccacatgacg gcggcggggg tgccccagct 360
ctcgactctc gcgctggggg gctactgcaa cggcaacctg ggcaacatga gcgagctgcc 420
gcgtaccagc gacaccatga ggaacagcgc ctctggcccc ggatggtacg gcgccaaccc 480
agaccgcgac tccccgcaca gttctttttt ttcaggatca ggc 523

```

<210> 644

<211> 525

<212> DNA

<213> Homo sapiens

<400> 644

```

gaattcggca cgagggtgaa ccagagatag agggaaagcc agagagtgaag ggagagccag 60
ggagtgaaac aagggtctga ggaaagcgcc cagctgagga tgaagtaccc aggaagagca 120
aaagaaaac taataagggg ctggctcatt acctcaagga gtataaagag gccatacatg 180
atatgaattt cagcaatgag gacatgataa gagaatttga caatatggct aagggtcagg 240
atgagaagag aaaaagcaaa cagaaattgg gggcgttttt gtggatgcaa agaaatttac 300
aggacccctt ctaccctaga ggtccaaagg aattcagggg tggctgcagg gccccacgaa 360
gggaacttga agacattcct tatgtgtagt gtccctggca ggcatattac aggcattgtg 420
ctttacaggt cggtaatact ttacttttag catccctcct gttgctagca gccttttgac 480
ctatctgcaa tgcagtggtc tcagtaggaa atgttcatct gttac 525

```

<210> 645

<211> 358

<212> DNA

<213> Homo sapiens

<400> 645

```

gaattcggca cgaggggggtg gtggagcgct gggcgccag gctccctggc tggccgggtt 60
ggcgctctgg gccctgaag tgggacctcc tgttccgggc cgcaagtttc cctctccagc 120
cgcccgccgt tcgtagcatg tccccagaa ctgggggagc gcaggcaggc caggcttaga 180
gaagacgcgg tccccagcgc ttgggcccag gacgtccac ccgcgtcttc tgtcgttga 240
gaaccgcggg gccgagccac tgggagaagc aggccagagc cttccagggc ctcgggccc 300
tggaccgag gaggatgagc tggcttttcc cctgaccaa gaggcctccc tctccgcg 358

```

<210> 646

<211> 420

<212> DNA

<213> Homo sapiens

<400> 646

```

gaattcggca cgaggcgctc cttcgcacac tgtgattttg cctcctgcc caccgagacc 60
tgacgggggc aaagagctcc cgaggaagca cagcttgggt cagggttctg ccttctttaa 120
tttttagggac agctaccgga aggaggggaa caaggagttc tcttccgcag ccccttcccc 180
cacgcccacc ccagctctcc agggaccctt gcctgcctcc taggctggaa gccatggtcc 240
cgaagtgtag ggcaagggtg cctcaggacc ttttggctct cagcctccct cagccccag 300
gatctgggtt aggtggcgt cctcctgctc ctcatgggaa gatgtctcag agccttcatt 360
acctccctcc cccaacccaa tgccaaagtg gacttgggag ctgcacaaa gtcagcaggga 420

```

<210> 647

<211> 518

<212> DNA

<213> Homo sapiens

<400> 647

```

gaattcggca cgagggtcgc cggagggtcg ttttaaaggg ccgcgcggtt gccgccccct 60
cgcccgccga tgctgctatc cgtgcgcgtg ctgtccggcc tccctggcct gcccgctgcc 120
gagcctgcgc tctacttcaa ggagcagttt ctggacggag acgggtggag ttcccgctgg 180
atcgaatcca aacacaagtc agattttggc aaattcgttc tcagttccgg caagtctcac 240
ggtgacgagg agaaagataa aggtttgcag acaagccagg atgcacgctt ttatgctctg 300
tcggccagtt tcgagccttt cagcaacaaa ggccagacgc tgggtgtgca gttaacgggtg 360
aaacatgagc agaacatcac ctgtgggggc ggctatgtga agctgtttcc taatagtttg 420
gaccagacag acatgcacgg agactcagaa tacaacatca tgtttgtgtc cgacatctgt 480
ggcctgcacc aaaaagggtc atgtcatctt caactaca 518

```

<210> 648

<211> 561

<212> DNA

<213> Homo sapiens

<400> 648

```

gaattcggca cgagggtcgc cttgaccgag atgtctgcgg cctgtcagtt atcggtgggg 60
accccgccgc ccccaagtg gctctgtggg aagtttgtcc tccgtccatt ggcaccatgc 120
cgcaaaaact ctacttttag cagctctggg ttgactactg gcaaaattgc tggagctggc 180
cttttgtttg ttggtggagg tattgtgggc actatcctat atgccaaatg ggattcccat 240
ttccggggaaa gtgtagagaa aaccatacct tactcagaca aactcttcca gatgggtctt 300
ggtcctgcag cttataatgt tcatttgcca aagaaatcga ttcagtcggg tccactaaaa 360
atctctagtg tatcagaagt aatgaagaaa tctaaacagc ctgcctcaca actccaaaaa 420
caaaaggag atactccagc ttcagcaaca cgaggtgata cctgtctggg cccagccctt 480
gcagttcagc ctgagggaatc tttaaaact gatcaccctg aaattgtgtg agggaaaccc 540
acacctgcac tttcagaaga a 561

```

<210> 649

<211> 428

<212> DNA

<213> Homo sapiens

<400> 649

```

gaattcggcga cgaggctgag gtggcagata gtgagcgtg gtggcggagt taaagtcaaa 60
gcaggagaggt aattatgaat agcgcagcgg gattctcaca cctagaccgt cgcgagcggg 120
ttctcaagttt agggggagagt ttcgagaaac acccgcgctt gcgccttcca cactgtgcgc 180
tatgacttcca aacctgtcttc tattgacact tcttctgaag gataccttga ggttggtgaa 240
ggtgaacagg tgaccataac tctgccaaat atagaaggtt caactccacc agtaactgtt 300
ttcaaaaggtt caaaaaacct tacttaaaag aatgcatttt gattattaac catgatactg 360
gagaatgtcg gctagaaaaa ctcagcagca acatcactgt aaaaaaaca agagttgaa 420
gaagcagt

```

428

<210> 650

<211> 428

<212> DNA

<213> Homo sapiens

<400> 650

```

gaattcggcga cgaggggagg gtcgggcgtg gccggcgact gaggggctcg gctggctctt 60
gaggggccag gccctggccg acgcgcgcgc cgtgagcgag gaggcccgaa tccgggcgtc 120
tttgggttggg ttgcggggccc agggccgcgc gccggggtcg ggaggcgtgg caggtggccc 180
gaacgccttc tttagacctc tgggaaagctg acttattcct atggccttgc ttctagggct 240
ttcttagggc tctttgcggg ctgcctgggc agccgcgcag gtggcgtgga gtaactggat 300
aaaagtatat ggtggaatcg ggccctactg gtaccctag tagtagggaa ggggtgtatt 360
agaccgagag ggaatgttta caactagcgt tacagtttaa tatttggaaa tccaaagcgg 420
aagactgg

```

428

<210> 651

<211> 341

<212> DNA

<213> Homo sapiens

<400> 651

```

gaattcggcga cgaggggccg gccgtgggtg acacgtaaat tgggcaggag gtggcggggc 60
ggcagaggga ccagccgaccc cgtcagtgac accgctgtgc cgtccccaaa accagccgag 120
acagctggcc cccacccttc caccatttgg gcaggccgca cgggggcgcg gcccgagtc 180
ctggctccctt tgttggggcg gcaccccttc ccttaggttg caacaaagtc gtgcagtggt 240
agccgcgcgc atagggcggg gagtggccag ggcgggactc caagaactgc cggggggcag 300
cggggccaaa aagtgggaag aaggaaaaaa ggcaggaggc a

```

341

<210> 652

<211> 669

<212> DNA

<213> Homo sapiens

<400> 652

```

gaattcggcga cgagggaaaa tttgtgctct ggagagaact gttaaagctc tagaatttgt 60
tcaaaactgaa tctcaaaaag attttgaaat aaccaagaa aatctggctc aagcagttga 120
acaccgcaaa aaggccacaag cagaatttag tagcttcaaa gtocctgtag atgacactca 180
aagtgaagca gcaagggttc tagcagacaa tctcaagttg aaaaaggaaac tttagtcaaa 240
taaagaatca gttaaaagcc agatgaacaa aaaggatgaa gatcttgagc gaagactgga 300
acaggcagaa gagaagccac tgaaaagaaa gaagaatatg caagagaaac tggatgcttt 360
gcgcagagaa aaagtccact tggaaagagc aattggagag attcaggtta ctttgaacaa 420
gaaagacaag gaagttcagc aacttcagga aaacttggac agtactgtga cccagottgc 480
agcctttact aagagcatgt cttccctcca ggatgatcgt gacagggtga tagatgaagc 540
taagaaatgg gagagggaat ttagtgatgc gattcaaaag aaagaagaag aaattagact 600

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caaagaagat aattgcagtg gtctaaagga tcaacttaaa cagatgtcat tcatatggaa 660
gaattaaga 669

<210> 653
<211> 322
<212> DNA
<213> Homo sapiens

<400> 653
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gcctgaaatg gttaaagggg agtggatcaa acctgggggca atagctcatcg actgtggaat 180
caattatgtc ccagatgata aaaaacccaaa tgggagaaaa gttgtgggtg atgtggcata 240
cgacgaggcc aaagagaggg cgagcttcat cactcctgtt cctggcgggcg tagggcccat 300
gacagtgtga atgctcatgc ag 322

<210> 654
<211> 332
<212> DNA
<213> Homo sapiens

<400> 654
gaattcggca cgaggggcgg aagcagctct tgtggatcct cagtggcgga ggctcggtca 60
cccgatagg taaagggaaa catgcctgcc acacggaagc caatgagata tgggcataca 120
gaggagacaca cggaggctctg ttttgatgat tctgggagtt ttattgtgac ttgtggaaat 180
gatggtgatg tgaggatttg ggaagacttg gatgatgatg atcctaagtt catataatgtt 240
ggagaaaagg catatctatg tgctttgaag agtggaaaaa tggctcactgc agttttctaat 300
aatactattc aagtcacac atttcctgaa gg 332

<210> 655
<211> 573
<212> DNA
<213> Homo sapiens

<400> 655
gaattcggca cgaggaaata aggtgaattt gggacaaatg aaaggtgaga tgaaggcaaa 60
ctactgtcaa gggatgatct gagcctgaac aactcagtg atgtgaagag aaaaacaagt 120
tacctgtgaa tatagatggt aactggaaaa gcaaggagaa aaaaaggag cacaaggaag 180
aaaaaaaaat caaaatttgt gagccatctc aagccatcaa aaaaacttca ttctattgta 240
ggagggaagc tggaaaacaat ggcagagtaa agaatgaaat gactagctcc 300
agttaggcat ataaatgaca attagaaggg acagaagtta tggttatgct agcagctcc 360
agtgagctag gatataaaact aagtcttttc aagctgaaca aatatataca cattcaacc 420
atttaagtga agagacacat ttaagtcocaa aaaagcaaac ttaactacot actatataac 480
ttacttttta ttgaagttat ctgtcattca tgatggatgc tttctgggtt ttaccacata 540
ttttaatggt aaaaagttaaa ttattcttta cat 573

<210> 656
<211> 462
<212> DNA
<213> Homo sapiens

<400> 656
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tacacatata cctatgttaac aaacctccac attctgcaca tgtgtccag aacttaaaagt 120
aaaattttaa aaaaagaaaa agaaatatcc agaaagatta tccagcctca aggtttatat 180
tataatggct ataacaaca aaacataaac ctattttcca aaggtttcca aatatactac 240
cgaaagaaca aacataaaaa acgactttga tattttctaa aagcataact taaaatttaa 300
aaaaaaagtt aatgaaaaaa caaactctca atggttactg ctttacttta agaaaaaac 360

atttagttaa gcaatttttc ccccaaagct atttaaacac caagattcag aagtaaacct 420
tatttagatg agttttctagt caacgaattg acctacataa tc 462

<210> 657

<211> 383

<212> DNA

<213> Homo sapiens

<400> 657

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gtgggaggac tccaaacgct ggagcaagat ggaccagctg gccaaaggagc tgacggctga 120
gaagcggctg gaggggcagg aggagaggaga ggacaaccgg gacagttcca tgaagctctc 180
cttcoggggc cggggcctac gcttcagggg ccctggggcg cagctgcgac gaggctggag 240
gccatcctcc cgggaggaca agccttgagg cgggcctgcc ctccaggctc gaggctaccc 300
cgaggagaag aaagaggagg agggcagcgc aaaccgcaga ccaggaggac aggagctgga 360
gagcctgtgc gccattgagg cag 383

<210> 658

<211> 540

<212> DNA

<213> Homo sapiens

<400> 658

gaattcggca cgagggttgc agtcagtgtc gccgccgtg ccgcgggctt tgcagagcag 60
gatgaatgtg atagaccacg tgcggggacat ggcggccgag gggctgcact ccaacgtgag 120
gctcctcagc agcttggtac ttacaatgag taataacaac cctgagttat tctcccacc 180
tcagaagtac cagcttttgg tgtatcatgc agattctctc ttcatgata aggaatatgc 240
gaatgtgtg agtaagtata ccatggcttt acagcagaag aaagcgcata gtaaaacttc 300
aaaagtgaga ccttcaactg gaaattctgc atctactcca caaagtcagt gtcttccatc 360
tgaaattgaa gtgaaataca aaatggctga atgttatata atgctaaaac aagataaaga 420
tgccattgtc atacttgatg ggaatccctc aagacaaaga actcccaaaa taaacatgat 480
gtggcacaac ctgtcaagaa ggtgtgtcag gagcgccctt cagtcaccag ctataaggag 540

<210> 659

<211> 366

<212> DNA

<213> Homo sapiens

<400> 659

gaattcggca cgaggcttca aactcacacc tcccgaggag agctgtcctg gcgcccgggc 60
ccgcggggaa aatggtggag ccaggggcaag atttactgtc tgctgtcttg agtgagagt 120
gaattagtc gaatgacctc ttgtatattg atggtggaga tgcagggctt gcaactccaa 180
tgccatcccc gtcagttcag cagcagcagc ctccatctac tacaaacatt gtgctgaatc 240
aaataaatca tcttccaccc ttgggatcta caattgtaat gactaaaaca ccacctgtaa 300
caaccacagc gcaaaacctc cactttaact aagtttatcc agactactgc aagccacgcc 360
ccgtca 366

<210> 660

<211> 514

<212> DNA

<213> Homo sapiens

<400> 660

gaattcggca cgaggaggaa gaaaagcact agcaacttca aagccgacgg cctgtccggc 60
actgctgaag aacaagaaga aaattttgag ttatcatttg tgcctctcac tggccaacaa 120
tggcactttt gaagccacga cgtataggga cggggacgct ggggtccaaag catcgagagc 180
cagatcctgg ccagcctgca gtcgtgcgag agcagcaaga acaagtcgcc gctgacgagc 240
cagagcgagg ccattggcct gcagtcgatc cggaacatgc cggggaaact ccactgtgtg 300

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gactgcgaga cccagaatcc caactggggc agtttgaact tgggagccct catgtgcac 360
gaatgctcag ggaaccaccc gaattcttggc acccaccttt cccgagtcgc atctctggac 420
ctggatgact ggccaatcga gctcatcaag gtgagtgcac ccatcgggaa cgagctagacc 480
aacacgcgtct ggggaagagag gacccagggg cggga
514

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<210> 661

<211> 515

<212> DNA

<213> Homo sapiens

<400> 661

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gaattcggca cgaggcggag tcaaggtgga cgcgagagac cacagtggag ccacagcccg 60
gatgctggcc aagcagtaac gacacatgaa gatcgtggcc ttgatggaca cttactcgcc 120
ctctctgccc aagagcctct atcggagccc agaaaagtac gaagatctga gctcttctga 180
cgagtcctgc cctgctcttc agagacagag gccttgccgg aagaagggtg tcagcatcca 240
cgagggaacc cgagccctgc ccaggatcac aggcattggc ctgggcgcca gagcccccag 300
gcctcgtctat gagcaggctc ctccccctgg ctatgtcacc tcaacacgca gtggcgagaa 360
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cgtggagagc agcagcagca gcagcagtcg ggaggaacat gctttctgtg ccaacctggg 480
gccccctccag agcagcagca gcagcagggg cctgg
515

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<210> 662

<211> 570

<212> DNA

<213> Homo sapiens

<400> 662

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gaattcggca cgaggcggct gcggcgccgc gggcggaact ttccagaacg actactgagt 60
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cctcacacac cgccctcagc ccgcaccggc agtagaagat ggtgaaaaaa acaacttact 180
acgatgtttt ggggggtcaaa cccaatgcta ctacgaagaa attgaaaaaa gcttatagga 240
aactggcctt gaagtaccat cctgataaga acccaaatga aggagagaag ttaaacaga 300
tttctcaagc ttacgaagtt ctctctgatg caaagaaaag ggaattatat gacaaaggag 360
gagaacaggc aattaaagag ggtggagcag gtggcggttt tggctcccc atggacatct 420
tgtatatgtt ttttgaggga ggagggaagga tgcagagaga aaggagaggt aaaaatgttg 480
tacatcagct ctacgtaacc ctagaagact tatataatgg tgcaaccaag aaaactggct 540
ctgcaaaaga atgtgatttg tgacaaatgt
570

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<210> 663

<211> 307

<212> DNA

<213> Homo sapiens

<400> 663

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gaattcggca cgaggcggcg gaggggctgg ctgggcaggga ggggttgagg gggcagcagg 60
gcccgggcca tggggagcct gaaggaggag ctgctcaaa ccatctggca cgccttcacc 120
gcactcgacc aggaccacag cggcaaggtc tccaagtccc agctcaaggt cctttccat 180
aacctgtgca cggtgctgaa ggttcctcat gaccocagtt ccoctgaaga gcacttcagg 240
gatgatgatg agggtccagt gtccaaccag ggctacatgc cttattttaa caggttcatt 300
ttgaaa
307

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<210> 664

<211> 496

<212> DNA

<213> Homo sapiens

<400> 664

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gaattcggca cgaggcgggg ccgaggagat tggcgacggt gtgcgccgtg ttttcgttgg 60

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cgggtgcctg  ggctggtggg  aacagccgcc  cgaaggaagc  accatgattt  cgccgcgcga  120
gttggtggat  gagttaatgg  gccgggacgc  aaacctagcc  ccggacgaga  agcgcagcaa  180
cgtgcggtgg  gaccacgaga  gcgtttgtaa  atattatctc  tgtggttttt  gtccctggga  240
attgttcaca  aatacacgtt  ctgattcttg  tccgtgtgaa  aaaattcatg  atgaaaaatc  300
acgaaaacag  tatgagaaga  gctctcgttt  catgaaagtt  ggctatgaga  gagatttttt  360
gcgatactta  cagagcttac  ttgcagaagt  agaactgagg  atcagacgag  gccatgctcg  420
tttggcatta  tctcaaaacc  agcagttctc  tggggccgct  ggcccaacag  gcaaaaaaaa  480
aaaaaaaaaa  ctcagag

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<210> 665

<211> 517

<212> DNA

<213> Homo sapiens

<400> 665

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gaattcggca  cgaggggact  cgcgagagag  gactcacgga  cctccaggac  ctattaactt  60
gaacagccgc  cccctctatt  cgagccagcc  caactcggag  aactcagagt  catcctcgag  120
agtaaagaaa  gctcttagag  tttttttttt  tttgacaaat  ctatctttaa  tgtcagtgca  180
atatccacgg  cgacgagcca  cagcaggtga  gaaacctgga  aatgagcctg  aagaggtgaa  240
gtgcgagaat  ccagacaaac  agattgtgca  gaatgcaatc  ctgcaagctg  tgcagcaagt  300
ctcccaggag  agtcagcgca  gagaagagag  aatcagtgac  aaccggggacc  acatccaaat  360
ggcggttggg  gagttaacca  agaagcacga  aaagaagtaa  catgggtggat  ttggctcttg  420
acatgtgctt  ggttctctag  ctctctctta  gtataggagc  catctcccaa  atgttgccag  480
taagcaaac  ccgaagtggc  acccggccct  aacttgt

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<210> 666

<211> 616

<212> DNA

<213> Homo sapiens

<400> 666

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gaattcggca  cgaggggccc  ctcttgctct  tctctccgct  ttttcttctc  tctcttgctg  60
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caccgcgcgc  gggttctctc  gggagtgagg  cggccgcggg  agccggggcc  gccgcgcggg  180
ctcttcagca  cccgcgaacc  gccacccggc  ctgtccagac  cgaggccatg  aagcagattc  240
tcgggggtgat  cgacaagaaa  ctctcggaacc  tggagaagaa  aaagggttaag  cttgatgatt  300
accaggaaacg  aatgaacaaa  ggggaaagcc  ttaatcaaga  tcagctggat  gccgtttcta  360
agtaccaggga  agtcacaaat  aatttggagt  ttgcaaaaga  attacagagg  agtttcatgg  420
cactaagtca  agatattcag  aaaacaataa  agaagacagc  acgtcgggag  cagcttatga  480
gagaagaagc  tgaacagaaa  cgtttaaaaa  ctgtacttga  gctacagtat  ttgtggaca  540
aattgggaga  tgatgaaagt  gcggacttga  cctgaaacaa  ggggtggaat  ggagtgcaaa  600
tattgtcaga  agagga

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<210> 667

<211> 596

<212> DNA

<213> Homo sapiens

<400> 667

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gaattcggca  cgagggaaaa  ttagtgctct  ggagagaact  gttaaagctc  tagaatttgt  60
tcaaacgtgaa  tctcaaaagt  atttgaaat  aaccaaaaga  aatctggctc  aagcagttga  120
acaccgcgaaa  aaggcacaa  cagaattagc  tagcttcaaa  gtccctgctag  atgacactca  180
aagtgaagca  gcaagggttc  tagcagacaa  tctcaagttg  aaaaagggaac  ttacgtcaaa  240
taagaatcca  gtttaaaagc  agatgaacaa  aaaggatgaa  gatcttgagc  gaagacttga  300
acaggcagaa  gagaagacac  tgaagaagaa  gaagaatatg  caagagaaac  tggatgcttt  360
gcgcagagaa  aaagtctcact  tggaaagagc  aattggagag  attcaggtta  ctttgaacaa  420
gaaagacaa  gaagttcagc  aacttcagga  aaacttggac  agtactgtga  cccagcttgc  480
agccttact  aagagcatgt  ctctccctca  ggatgatcgt  gacagggtga  tagatgaagc  540

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taagaaatgg gagaggaagt ttagtgatgc gattcaaagc aaagaagaag aaatta 596

<210> 668

<211> 297

<212> DNA

<213> Homo sapiens

<400> 668

gaattcggca cgaggggaaa caccatggct gggcgggccc agctctctct gacacagtta 60
tcaaagtggga atcctgtata tgaaaaatac tatagacagg ttgatacagg caatactgga 120
agggtgttgg ctctctgatgc tgcctgtttc ctgaaaaaat cagggtctcc agacttgata 180
cttggaagaa tttgggattt agccgacaca gatggcaaa gttactctgaa caaacaagaa 240
ttctttgttg ctcttgctct tgtggcatgt gcccagaatg gattggaagt ttcacta 297

<210> 669

<211> 458

<212> DNA

<213> Homo sapiens

<400> 669

ggcagcaggg atcggtcgcc tgagaggat cactctctct gggctcaaga tggacaacaa 60
gaagcgccgt gctacggcca tcattcagtt cctgcctgac cagctccggc acggggggcct 120
ctcgctcgat gctcaggaga gcttggaagt cgccatccag tgcctggaga ctgcgtttgg 180
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cgaggaggac tcagcagagg cagagcgccct caaaaccgaa ggaacagagc agatgaaagt 360
ggaaaacttt gaagctgcgc tgcatttcta cggaaaagcc atcgagctca acccagccaa 420
cgccgtctat ttctgcaaca gagccgcagc ctacagca 458

<210> 670

<211> 634

<212> DNA

<213> Homo sapiens

<400> 670

gaattcggca cgaggctcag ctgacaagga ctggggagcg cgggtgcctt gtcttgctt 60
tgtcgccccc gccctctctg tccttggctg gacttgcgga gtcccgcgcg aagaaccgga 120
ggagccatatt attgaagacc atgtctggaa gcttctactt tgaattgtt ggtcaaccatg 180
ataatccagt tttgaaatg gagtttttgc cagctgggaa ggcagaatcc aaagacgacc 240
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ggctgtcgaa caacatgtac ttgaaaactg tggacaagtt caacgagttg tttgtgtcaa 360
catttgtcac cgccgggcat atgaggggta ttatgcttca tgacataaga caagaagatg 420
gaataaagaa ctcttttact gatggttatg atttatatat aaatttttca atgaatccat 480
tttatgaacc caattcttct attcgatcaa gtgcatttga cagaaaagt caatttcttg 540
ggaagaacc cttttaagc tgaatggaga aaattccaaa taaattatat caccaccatg 600
gtgtatactc aaaaaaaaaa aaaaaaaact cgag 634

<210> 671

<211> 517

<212> DNA

<213> Homo sapiens

<400> 671

gaattcggca cgaggcaaa gcttatctca gatgcccttg agatatggaa tgaaccacaa 60
tcagacccct gccacgtgt acacactgca gcccaagctt cccatcacag ttctaaatgg 120
agccctggga ttataaaact tgtgcgatgc ttgaaagcgc tggcagctgg tgaaggaaact 180
caaggaggct ttaggtattc cagccgctgc ctctttcaaa catgtcacgc cagcaggtgc 240
tgtgtgtgga attccactca gtgaagatga ggccaaagtc tgcattggtt atgatctcta 300

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taaaacccctc acacccatct cagcggcata tgcaagagca agaggggctg ataggatgtc 360
ttcattttggt gatatttgttg cattgtcoga tgttttgtgat gtaccaactg caaaaattat 420
ttccagagaa gtatctgtatg gtataattgc cccaggatat gaagaagaag ccttgacaa 480
actttccaaa aagaaaaatg gaaactattg tgtcctt 517

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<210> 672

<211> 516

<212> DNA

<213> Homo sapiens

<400> 672

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aattcggcac gaggggttaa acagatttct caagcttacg aagtctctc tgatgcaaag 60
aaaagggaat tatatgacaa aggaggagaa caggcaatta aagagggtg agcaggtggc 120
ggtttttgct ccccatgga catctttgat atgttttttg gagggaggag aaggatgcag 180
agagaaagga gaggtaaaaa tgttgtacat cagctctcag taacctaga agacttatat 240
aatggtgcaa caagaaaact ggctctgcaa aagaatgtga tttgtgacaa atgtgaaggt 300
agaggaggta agaaaggagc agtagagtgc tgtcccaatt gccgaggtag tggaaatgcaa 360
ataagaattc atcagatagg acctggaatg gttcagcaaa ttcagtctgt gtgcattggag 420
tgccagggcc atggggagcg gatcagtcct aaagatagat gtaaaagctg caacggaag 480
aagatagttc gagagaagaa aattttaaaa gttcat 516

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<210> 673

<211> 516

<212> DNA

<213> Homo sapiens

<400> 673

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aattcggcac gaggaacgag actgtgtctc aaaaaaatcc agaagcttta tcccaggtct 60
actggacttc ctagaacacc aagaaaggaa aggggaattcg cctgtcatga tttagaatca 120
tgggggaata ttgtactacc caaataatga gtgacaaaaa ggtaacctct tgtttttaag 180
ccacaacttg aagcagttag caaggaggto tatttttggt agaaagtttg tgggttccat 240
tttcaacatg tgattcaaat tacttaatac aggcctgggac agggagaatg tgagcagctg 300
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gaaagaatga cagggtcaaa gtggaggagc tgcgggggac atccagcagc cagagaattt 420
ctgaattgaa aacatggcca agcgcagtag ctcatccttg taatccccac actttgggag 480
accaagcag aagatgcctt tgaggccagg agttca 516

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<210> 674

<211> 516

<212> DNA

<213> Homo sapiens

<400> 674

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gaattcggca cgagccttga gtgacgatgt cctatcagcg gactatcgca tcatgatgaa 60
gaactttgtg gtctgcatgg tgaccaagac caaagccggc cagggtacct cagcaccccc 120
agaggcctca cccacagctg cccacagagtc ctctacatcc ttcccgcctg cccacacctca 180
ggcatgtccc atccccacc atccccaccaga gccgcacaga gaggacaaga gccatccgc 240
cccacagagt cccacagagtc tgtgtcaggc tctgttccct ctccaggtag cagcggggca 300
gaggaagacg cggcctccac gctagtgcag ggctctgagt atgagacgat gctgacggag 360
atcatgtcca tgggctatga cgcagagcgc gtcgtggcgc cctgagagcc agctacaaca 420
accgccaccg agccgtggag tatctgctca cgggaattcc tggggagcccc gagccgggaa 480
acggttctgt ccaggagagc cagggtatcg agcagc 516

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<210> 675

<211> 406

<212> DNA

<213> Homo sapiens

<400> 675
 cctcgtgccc aattcggcac gaggatcagt ttaaaacagt gcctgggctc ccagccctcc 60
 actcacttcc ctgttctctg catgggtgat actgagaggt tgggaggcat aggaaggggg 120
 aagatccctag ggagtatatg tgagcattga ctatatgcag aggggttttag tgggtgctctg 180
 tagaaatggt tggaggcgga tagaaaatat ttttagaaga gcactcctccc aatgttctct 240
 ctttttttct tggatgggaag atgtttttgt gccagaaatc agattgtatac ccaaagttag 300
 atttcaggtt tactccacag gtccctcaat ttaagggat catcactctt gttctttttc 360
 taatcagtta gtatgtctat tcttgatcac tgggaagtgc tgttgt 406

<210> 676
 <211> 529
 <212> DNA
 <213> Homo sapiens

<400> 676
 gaattcggca cgaggggacat ttctcggcat tgaagaaaaa tttaggcctt tttatttaag 60
 tcaattagaa gaaagtgtag aaggagacgt gaagagttta aagaaagagt attcaaacga 120
 aaaaatgcagt tgtgaagaga atgcagtcct ttccacttcat tgtgtggcag taccttccaa 180
 ccggtcaaat ctacgccacag aacagcctgg ttccacttgca cagttcccag ggacttggga 240
 tgggtcctgt ggaggagtcc tgggtttgctc ctccctgga gcccccacaa gaagagaatg 300
 agcccagcct gcagagttaa ctccaagacg aagccactac catotttatg gcagccgcac 360
 ggacaggcag acgaacacag agcccagaca gaatgtggct tacaacagag agggggaaag 420
 gagacgcagg gtctcccatg accotttttgc acagacaaga ccttacgaag aattttcaga 480
 atacagaggg aaaaggcctg gttattccag tgcagccagt catggtaat 529

<210> 677
 <211> 528
 <212> DNA
 <213> Homo sapiens

<400> 677
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 acccagagat gacacagaga tgaatgagat gtggctcctg tcatcaagga gctcatgatt 120
 caatggggaa ctaacactta gatgcattgg cagttaggga catgcaagaa tctttgtaat 180
 gcaacaagag agaagtatac aggcagcacg gaagtcaatg ccggtgaacc cagatggcct 240
 ggtgagagga gctcggacta gaaggaatta ctctcacttc caccacccga tgtatggaaa 300
 ctgtataact ttcaatgaca agaacaactc caacctctgg atgtcttcca tgctgtggaat 360
 caacaacggt ctgtccctga tgctgcgcgc aaagcagaat gacttcatcc cctgtctgtc 420
 cacagtgaat ggggcgcctg taatggtgca cgggcaggat gaacctgcct ttatggatga 480
 tgggtgcttt aacttgccgc ctggcgtgga gacctccatc agcatgag 528

<210> 678
 <211> 528
 <212> DNA
 <213> Homo sapiens

<400> 678
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 gccacagctg attttgggac aattgctttt taaacagctt ttatgccaaa aatccttcat 120
 tgtgattttc agaaccacgt cagatatacc aagtactagt gtgtgggggt tgacaactgt 180
 ggaagagcga gcagaaaact ccggcggctg gaggccatgg aggtgggtgc tgcattttag 240
 agggagtagg ggcctagatg tggctcctag tgcaaacagg aaacctatgc accttcaga 300
 gcctgtgtct caaggagtca gagcagggtc ggccctcagt agctcgagg agctttgatg 360
 caacttattt ttaagaagga tttttaaatt ttttatgggt agaattgtag tcaggaaaac 420
 agaaagggct tgaaatttaa taagtgtctc tgggaaggga ttttccaagc ctggaagggt 480
 attcagcagc tgtggtgggg aaacatttct cctgaaagac tgaacgtg 528

<210> 679

<211> 309
 <212> DNA
 <213> Homo sapiens

<400> 679
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 tcggccaggg ttctcgtctct tgcgtgtctt gttcaaacgc gcaaggctctg atccggaaaat 120
 atggcctcaa tatgtccgcg cagtgtttcc gtcagtacgc gaaggatata ggtttcatta 180
 agttggacta aatgctcttc cttcagagga ttatcgggg catctactca atgaaaaacc 240
 atgataatc ttgttatata aaataaacat ttgaaaaaac ccttcaaaaa aaaaaaaaaa 300
 aaactcgag 309

<210> 680
 <211> 366
 <212> DNA
 <213> Homo sapiens

<400> 680
 gaattcggca cgaggcgggc cgttatccat ttgtgttgtt cgccagctag gcttggcctc 60
 gtcccgcttc gtcggctcgg tctcgcgcgc ccccatagcc ttgctagagg gtttagcgta 120
 gccttaaaagt gtgcgaatcc cgaagggaagc aagcgacaga actogaagaa ccaccgcttc 180
 ctttcccttg gggaaaaggaa ggcggggcacc ctgcgctgtt gaaaagcccc gcccttgcg 240
 ttttgggaag ccccgccctt gcgctttgcg gcccgcgcct tgcgcttga aggccttgc 300
 ttgcgctttt gaaaacttca ttgtggggcg tggattgaag gaattttggg ggaaggtttt 360
 tggggc 366

<210> 681
 <211> 495
 <212> DNA
 <213> Homo sapiens

<400> 681
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 ttttagacct ccggccctag gacccccgga acctgggacc ccgagagacc cagcaactcg 120
 ggcgggggga tggctatggg gacttctggg gcttgaagac cctgggtctg cgggaagccc 180
 ctgctgagcg tcctctgcct accccgtggc cagtggcttt tcagtgacga aaccacctta 240
 tctatgtgac aaagctcggg ccactcagtg caaggtagat tgcctacacg tacctttgat 300
 acaacaacct gagaaggacg tcaacttctgc gatattctcg ccaaaaaatgc atctcccgcat 360
 tccgatctg agaacatcct gggcacacc aaactgagag acaccatata aagtgaactgg 420
 tcagtgcact caaaggcaaa aagctcatgg aaggcaacag aagacaggag aagtgaacgc 480
 taaaagcagc gtgga 495

<210> 682
 <211> 529
 <212> DNA
 <213> Homo sapiens

<400> 682
 gaattcggca cgagggtgaa acagccgttt gattttggct gcgggtggag aacgtttgtc 60
 aggggcccgg ccaagaagga gcccgcctg ttacgatggt gtccatgagt ttcaagcgga 120
 accgcagta ccggttctac agcaccgggt gctgcggctg ttgcatgtc cgcaccggga 180
 cgatcatcct ggggaacctg tacatggtag taaacctatt gatggcaatt ttgctgactg 240
 tgggaagtac tcatccaaac tccatgccag ctgtcaaatc tcagtatgaa gtcacgtgta 300
 attactattc gtctgagaga atggctgata atgcctgtgt totttttgce gctctgttct 360
 tatgtttata atcagttcaa tgctgtttta tggagcaatt tottatcagg tgggtttggc 420
 gattccattc ttctgttacc gactttttga cttcgtctc agttgcctgg ttgctattag 480
 ttctctcacc tatttgccaa gaatcaaaaga atatctggat caactacct 529

<210> 683
 <211> 527
 <212> DNA
 <213> Homo sapiens

<400> 683
 gaattcggca cgagggaaca ccatgccttc aattaagttg cagagttctg atggagagat 60
 atttgaagtt gatgtgga aa ttgcaaaaca atctgtgact attaagacca tgttggaaga 120
 tttgggaatg gatgatgaag gagatgatga cccagttcct ctaccaaatg tgaatgcagc 180
 aatattaaaa aaggtcattc agtgggtgcac ccaccacaag gatgaccctc ctctctctga 240
 agatgatgag aacaaagaaa agcgaacaga tgatatccct gtttgggacc aagaattcct 300
 gaagttgcc aaggaacactt ttttgactca tttcgggtgc aaactactta gacatcaaa 360
 gtttgcctga tgtacatgca agactgttgc caatatgato aaggggaaaa ctctcgagga 420
 gattcgcaag accttcaata tcaaaaatga ctttctgaag agggagaaac cagtcgcaa 480
 gagaccagtg ggtgaagaga agtgaatgtt gtgctgcaat gtacctg 527

<210> 684
 <211> 441
 <212> DNA
 <213> Homo sapiens

<400> 684
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 agtaaggaac agcaaaagtgg gagggctaca ccatcaccat ggcaacagaa agcctcaaaa 120
 acataaagtc cctcgactta tgcgggttag actcttccca gctcaggaga aacacatttt 180
 aactggctga ggacaaggcc aggcagcctg gccacactgc ggaagggcag ctggagcgcg 240
 ggccctctgtt cagtctctgga agtgcttggg gaggggttcc agcagctcct gcttcttccg 300
 cccactctctt agcccgtaag cccggcagcg ctctttccag atggggacag tgaacttgcc 360
 cagcgtaacc ttgctgatgt ggggtcttcag ctctcttctt gaatactcca ccttgggctt 420
 tttgcttcca gaacottcat t 441

<210> 685
 <211> 490
 <212> DNA
 <213> Homo sapiens

<400> 685
 aagaattcgg caccaggccg agctgaagtt cgaacccact atgatcccc tcgaaagctc 60
 atggctatgc agcggccagg tccctatggt ggaggggtatg gaggctatga tgactatggt 120
 ggctataatg atggatatgt ctttgggtct gatagatttg gaagagacct caattactgt 180
 ttttcaggaa tgcctgatca tagatacgga gatggtgggt ccagtttcca gacgaccaca 240
 gggaactgtg tacacatgag ggggttacct tacagagcca ctgagaatga tatttataat 300
 ttcttctcac ctcttaatcc catgagagta catattgaaa ttggaccocga tggcagagtt 360
 accggtgagg cagatgttga atttgctact catgaagatg ctgtggcagc tatggcaaaa 420
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 tgggggtgct 490

<210> 686
 <211> 618
 <212> DNA
 <213> Homo sapiens

<400> 686
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 aaaattgaaa agtacagaga ataactgggt tctactgtaa caccaccaga tttaacaatg 120
 ttaatgttac gccatatatt ttccaatat ttttgtaata ttgaacatta tggatagagt 180
 taaagcttgt ttgtatccat cccgttgttt acattctcca tccctacat aggtaaccac 240
 tattctggaag ttgatgtgta ttcttttgtt acatgttttt ataacttttc tgcatatgta 300

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tgtatccata aataatatgt agtctgttgt gtgtttttaa actttacaca gtggatgtcg 360
tactottaca tgtattctgc agcttgcatt ttccacacat tcatttttaa tattcgttca 420
tggttaacaat gtatagctag ttttcttttt aaactctgta tagtattctt atgtatgaca 480
tacacttggt gttatacatt tgaattattt ccaggtattc ttttttgtgt gtggatatga 540
aagtcacgat ggcagagatt tttgaaggaa gataaattat tttaggatta catttacagc 600
gcaggccac ttcaaggt

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<210> 687
<211> 410
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> 396
<223> n = A,T,C or G

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<400> 687
ggggatcaga ggcgtggtgag gttggccctg ttgcagcatc tgcgggcctt ctatggtatt 60
aaggtgaagg gtgtccgtgg gcagtgogat cgcaggagac atgaacacgc agccacggaa 120
atagggggta aaatatatttg agtacctttt aatgcactgc cccattctgc tbtaccagaa 180
tatggacaca ttccaaagctt tcttgctgat gcttgacatc ctttagaaga ccatattcat 240
accgaaggcg tttttcggaa atcaggatct gtgattcgcc taaaaacata aagaataaag 300
tggatcatgg ggaaggttgc ctatctctgc acctccttgg gatattgcgg gacttcttaa 360
gcagtttttt agggactgcc agagcccatc ctccnctga tttgcatgaa 410

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<210> 688
<211> 412
<212> DNA
<213> Homo sapiens

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<400> 688
ggcgggtgca gcgggggggc ccggggggcc tgggtggcct gggatgggga accgcggtgg 60
cttcocggga ggtttcggca gtggcatccg gggcgggggt cgcggccctg gacggggccg 120
gggcgcaggc gcgcggagctc gcggaggcaa ggcgagggat aaggagtggg tccccgtcac 180
caagttgggc cgcttgggtca agacatgaa gatcaagtc ctcggaggaga tctatctctt 240
ctccctgcc attaaggaat cagagatcat tgatttcttc ctggggggcct ctctcaagga 300
tgagggtttt aagattatgc cagtgcagaa gcagaccgt gccggccagc gcaccagggt 360
caaggcatct gttgctatcg gggactacaa tggccacgct ggtctgggtg tt 412

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<210> 689
<211> 412
<212> DNA
<213> Homo sapiens

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<400> 689
gccttgctaa cgctgcgctc ggggaggatt gatgtccctt cagcatcatg cagcccgccg 60
ccgagggaag tgaaagttac acaagaactg aaaaacattc aagttgagca gatgacaaaa 120
cttcaagcca aacatcaagc agaattgtat ttgcttgaag atataggac attcagtcag 180
aagaagcgct ctattgaaag agagtatgca cagggtatgc agaagttggc tagtcaatac 240
ctgaagagag atttggcctg agtaaaagct gatgactcga atgattacag gagcatgtat 300
cccgttttga aatctttttc cgaggggaaca atgcaggtag cccagtcctg gatgaatata 360
tgtgaaaaact ataaaaactt cattttctgac ctgcaaggac agtgagaagc tt 412

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<210> 690
<211> 412
<212> DNA

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<213> Homo sapiens

<400> 690

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ggcgccggccgc gcgcggggct ctcatagtgc tggagggcgt ggaccgcgcc gggaagagca 60
cgcagagccgc caagctgggt gaagcgctgt gcgcgcggcg ccaccgcgcc gaactgctcc 120
ggttcccgga aagatcaact gaaatcggca aactctctgag ttcctacttg caaaagaaaa 180
gtgacgtgga ggatcactcg gtgcacctgc tttttctctg aaatcgctgg gaacaaagtgc 240
cgttaattaa gaaaagtgtg agccaggcgc tgacctctgt cgtggacaga tacgcatttt 300
ctggttggtgc cttcaccgggt gccaaaggaga atttttcctt agactggtgt aaacagccag 360
acgtgggcct tcccaaaccc gacctggtcc tgttctccca gttacagctg gc 412

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<210> 691

<211> 412

<212> DNA

<213> Homo sapiens

<400> 691

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ggttttcatc cttgaaaaac agtaagaaat atgctccac cgaggcacag ttgaatgctg 60
ttgatgcttt gattgactcc atgagcttgg caaagaaaga tgagaagaca gacacccttg 120
aagacttgtt tccaaccacc aaaatcccaa atcctcgatt tcagagatta tttcagtgtc 180
tgctgcacag agctttacat ccccgggagc ctctaaccoc aattcagcag catatttgga 240
atatgctgaa tcctcccgct gaggtgacaa cgaaaagtca gattcctctc tctaaaataa 300
agaccctttt tcctctgatt gaagccaaga aaaaggatca agtgactgct cagggaattt 360
tccaagacaa ccatgaagat ggacctacag ctaaaaaatt aaaaactgag ca 412

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<210> 692

<211> 412

<212> DNA

<213> Homo sapiens

<400> 692

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gcttggttgt ggaatcgctg gatcgctact tgacaatgca gatctctgtg aagactctga 60
ctggtaagac catcaccttc gaggttgagc ccagtgacac catcgagaat gtcaaggcaa 120
agatccaaga taaggaaagg atccctcctg accagcagag gctgatcttt gctggaaaaa 180
agctggaaga tggggcgacc ctgtctgact acaacatcca gaaagagtcc accctgcacc 240
tggtgctccg tctcagaggt gggatgcaaa tcttctgtgaa gacactcaat ggcaagacca 300
tcacccttga ggtggagccc agtgacacca tcgagaacct caaagcaaaag atccaggaca 360
aggaaggeat tcctcctgac cagcagaggt tgatctttgc cggaaagcag ct 412

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<210> 693

<211> 413

<212> DNA

<213> Homo sapiens

<400> 693

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ggtgaatggt agtgttgcca cctgtgtctg aggcctgagg cctcttcttc agctttatct 60
ccctttcctt caactcaagg ccattttccc agtccctatc tcccaccatc cctccggcct 120
tataggcccc acaggtgcta tttgtttgct tggcccgagg gtggggctac caagcaagg 180
cttggcatat accaaaggcc aagctgcatg cccattaatc tgggcttttt tcttttgcgg 240
tcaatgtggg gtttttaatgc tgaatcaaat gttaaacttt tccaagaactt gggggaactc 300
gaagtcccca tctacacttt taccocacttt tctctgccaa cctaaacctt cgttttaagta 360
attggaaggg actggttccc ttccttttgt tgggaaggaa ccaggaaggga aag 413

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<210> 694

<211> 441

<212> DNA

<213> Homo sapiens

<220>
 <221> misc_feature
 <222> 100,138,202,203,211,237,287
 <223> n = A,T,C or G

<400> 694
 actagtggat ccaaaagagag agagagagag agagagagag agagagagag agagagagag 60
 agagagagag agagagagcgc ccgaggcgcg gaggggctgn ctgggcagga ggggttgccg 120
 gggcagcagc gcgcgcgnc a tggggagcct gaaggaggag ctgctcaaa ccatctggca 180
 cgccctcacc gcactgcacc annaccacag nggcgagggtc tccaagtccc agctcanggt 240
 cctttcccat aaactgtgca cgggtgctgaa ggttcctcgt gacccanttg ccoctgaaga 300
 gcacttcagg gatgatgat aggggtccagt gtccaaccag ggctacatgc cttatttaaa 360
 caggttcatt ttggaaaagg tccaagacaa ctttgacaag attgaattca ataggatgtg 420
 ttgggaccct ctgtgtcaaa a 441

<210> 695
 <211> 413
 <212> DNA
 <213> Homo sapiens

<400> 695
 gctcgtctcc cgcgcgccag cgcctgcacc accgcttctc cctccctgtc gcagccgcgc 60
 cgcgcgcgag cgcgccagcc acacgcgcgc gggcagaagc cgcgcgctct ccggaaagt 120
 ataacagaaat tcattgaagt ggagaatttt taagaagggt aacaaaaaga gaaagaaaat 180
 gcgcaaacca atcaacgtaa gactaactac aatggatgct gagctggagt ttgcattcca 240
 gcccaataca actggcaaac aactttttga ccagggtggtg aaaaacagttg gtttgcgtga 300
 ggtctgggtt ttggggtgc agtatgtaga cagcaaagggt tattctacat ggcttaaaat 360
 aaataaaaaa gtaacacagc aggatgttaa aaaagagaat cctttacagt tca 413

<210> 696
 <211> 399
 <212> DNA
 <213> Homo sapiens

<400> 696
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 tgctggccgc gaaggtggtg gtctgacgtg gtgaaggcat caacatttct ggcaatttct 120
 acagaaacaa gttgaagtac ctggctttcc tccgcaacgc gatgaacacc aacccttccc 180
 gaggcccccta ccacttcggg gcccccagcc gcatctcttg gcggaccgtg cgaggatgtc 240
 tgccccacaa aaccaagcga ggccaggccg ctctggaccg tctcaagggt ttgacggca 300
 tcccaccgcc ctacgacaa gaaaagcgga tgggtggttc tgctgccctc aaggctgtgc 360
 gtctgaaggc tacaagaagg tttgcctatc tggggcgcc 399

<210> 697
 <211> 398
 <212> DNA
 <213> Homo sapiens

<400> 697
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 tccaggttct gcagcagcag ccagatgatg cagaggagcg agctgagcgc ctccagcgag 120
 aagttgaggg agaaaggcgg gcccggaac aggcgtgagc tgaggtggcc tccctgaacc 180
 tgaggatcca gctggttgaa gaagagctgg accgtgctca ggagcgctg gccactgcc 240
 tgcaaaagct ggaagaagct gaaaaagctg ctgatgagag tgagagaggt attgaaggtta 300
 ttgaaaaccg ggccttaaaa gatgaagaaa agatggaact ccaggaaatc caactcaaa 360
 aagctaaaga cattgcagaa gaggcagata ggaagtat 398

<210> 698

<211> 396
 <212> DNA
 <213> Homo sapiens

<400> 698
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 gtgtgcaactt cgaaaaagaa cataaagctg agaaagtcoc agcagtagcc aactacatta 120
 tgaaaataca caattttact agcaaatgcc tctactgttaa tcgctattta cccacagata 180
 ctctgtctcaa ccatatgtta attcatgtgtc tgtcttgtcc atattgcgct tcaactttca 240
 atgatgtgga aaagatggcc gcacacatgc ggaatgggtca cattgatgaa gagatggggac 300
 ctaaaacaga ttctactttg agttttgatt tgacattgca gcagggtagt cacactaaca 360
 tccatctcct ggtaactaca tacaatctga gggatg 396

<210> 699
 <211> 398
 <212> DNA
 <213> Homo sapiens

<400> 699
 ggccactgca gtgctcgagc cccgtgcagg ggagcttgcc ggaggatcga ccgacagacg 60
 gacgcacgcc gaggcactgc gccccacgcc ccgcccgggt gccaccgccg cccgaccccg 120
 gccgcagtcg cagcccgcccc tcgcccgggt cctaggtgccc cggcccccaca ccgcgcagctg 180
 ctgcggcgccc gggtccgccca tgcgtccgcc cgctgtcctg gctcttctgc tctgcgcggg 240
 gcaagtcact gcgtccctg tgaacagccc tatgaataaa ggggataccg aggtgatgaa 300
 atgcactcgtt gaggctcatct ccgacacact ttccaagccc agccccatgc ctgtcagcca 360
 ggaatgtttt gagacactcc gaggagatga acggatcc 398

<210> 700
 <211> 399
 <212> DNA
 <213> Homo sapiens

<400> 700
 gcctgaatcc cctgcaaaacc ccagaggagc tcggcctcgc ctgcgccacg atgtccgggg 60
 agtcacgccg gagcttgggg aaggggaagcg cgccccgggg gccggtcccg gagggctcga 120
 tccgcattca cagcatgagg ttctgcccgt ttgctgagag gacgcgtcta gtccctgaag 180
 ccaagggaat caggcatgaa gtcatcaata tcaacctgaa aaataagcct gactggttct 240
 ttaagaaaaa tcctcttgggt ctggtgccag ttctggaaaa cagtcagggt cagctgatct 300
 accagtcctg catcacctgt gactacctgg atgaagcata cccaggggaag aagctgttgc 360
 cggatgaccc ctatgagaaa gcttgccaga agatgatct 399

<210> 701
 <211> 399
 <212> DNA
 <213> Homo sapiens

<400> 701
 gatctcattg ccacgcgccc ccgacgacgg ccgacgtgc attcccatt ccttttgggt 60
 ccaagtccaa tatggcaact cttaaaggatc agctgattta taattcttta aaggaagaac 120
 agacccccca gaataagatt acagtttgttg gggttgggtg tgttggcatg gctgtgcca 180
 tcagtatctt aatgaaggac ttggcagatg aacttgctct tgtttagtgc atcgaagaca 240
 aattgaagg agagatgatg gatctccaac atggcagcct ttctcctaga acaccaaaga 300
 ttgtctctg ccaagactat aatgtaactg caaactccaa gctggctcatt atcacggctg 360
 gggcacgtca gcaaggagg gaaagccgtc ttaatttgg 399

<210> 702
 <211> 398
 <212> DNA

<213> Homo sapiens

<400> 702

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gccacagcgg gagcggcagc aagtcgtccg gaccgccacc gcgcgtcgggt tctctccggga 60
gtgaggcgccg cgcgggagcc gggggccgccg cgcggcgcttc tcagcacccc gcaaccggca 120
ccggcgctgt ccagaccgag gccatgaagc agattctcgg ggtgatcgac aagaaacttc 180
ggaacctgga gaagaaaaag ggttaagcttg atgattacca ggaacgaatg aacaaagggg 240
aaaggcttaa tcaagatcag ctggatgccg tttctaaagta ccaggaagtc acaataaatt 300
tggaagtttcg aaaagaatta cagaggagtt tcatggcact aagtcaagat attcagaaaa 360
caataaagaa gacagcacgt cgggagcagc ttatgaga 398

```

<210> 703

<211> 403

<212> DNA

<213> Homo sapiens

<400> 703

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ggttacaaaa gttgaagtgc agaagttctt tgcagacttt cttcttgctg aggatgacat 60
ttacttgctt tatgatgaca aaggtgttgg tctgggagaa gcattagtga aatttaaatt 120
agaagaacag gccatgaag ctgaacgttt aaaccgacga agattcctag ggacagaggt 180
gttattaaag cttatatctg aggcacaaat acaggagttt ggtgtaaatt tttctgtgat 240
gtccagtgaa aaaaatgcaag ctgcgtcaca gtcacgtgag cgaggtgacc attccccatt 300
atttgactca aaagacccac caataatactc agttggtgct tttgaaaact ttagacatca 360
gctagaggac ttgaggcaac tggataaact caagcatccc cag 403

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<210> 704

<211> 411

<212> DNA

<213> Homo sapiens

<400> 704

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cacgaggcca aagcccgccg gccgctgcac ccgcgtcca gcacctactg ccgcgtccg 60
tcgccgccgc caccatgccg aagagaaaag ctgaaggagg tgctaaggga gataaagcaa 120
agggtgaagga cgaaccacag agaagatccg cgagggtgtc tgctaaacct gctcctccaa 180
agccagagcc caagcctaaa aaggccctcg caaagaaggg agagaaggta cccaaaggga 240
aaaagggaag agctgatgct ggcaaggagg ggaataaccc tgcagaaaaa ggagatgcca 300
aaacagacca ggcacagaaa gctgaagggt ctggagatgc caagtgaag gtgtgcattt 360
ttgataactg tgtacttctg gtgactgtac agtttgaaat actatttttt a 411

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<210> 705

<211> 203

<212> DNA

<213> Homo sapiens

<400> 705

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gagaacgtcc actgcggggc ggcgaagact ggttccttgt ggagaagcac tgggtataagc 60
agtgggagcg atactgtcag ggaagggaacc aggactccag cacctctccc ggctcatctg 120
gcgcccacgc ctcccctgcc tgcagctccc caccagctc tgagttcatg gatgttaatt 180
gagagccctg ggtoctgcca cag 203

```

<210> 706

<211> 402

<212> DNA

<213> Homo sapiens

<400> 706

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gtgtgggcag gcagggttagg tggcccaccc agttcactcc cagcgtgggg acctgcagag 60
ctgctgtccc gagacaggtt gtttggaaca acatctgggt ttctggattt ccatttgagc 120

```

```

acagctggac tacacagcct gaagctctct ctgccgagat atagatatatt ccctgggtgat 180
gatctttcaa gctgacatga agacatggcc acccaactgga acgtcgtgtg tctgccgtgg 240
cgctcttgta atttgtgagg gaggctcctg acgaatgcag tgcgtaagtg ggaatgggtg 300
ggaagtctct gcatecccc gcttggccga aagtgtctgc tgcgcagatt tgtggatgg 360
cctttgagca ggaagaagac acggaacaca ttcctgttag ct 402

```

<210> 707

<211> 411

<212> DNA

<213> Homo sapiens

<400> 707

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gcacgaggca cgactgttac agaggctctc agagccttct ctctcctgtg caaaatggca 60
actcttaagg aaaaactcat tgcaccagtt gcggaagaag aggcaacagt tccaaacaat 120
aagatcactg tagtgggtgt tggacaagtt ggtatggcgt gtgctatcag cattctggga 180
aagctctctg ctgatgaact tgctcttggt gatgttttgg aagataagct taaggagaaa 240
atgatggatc tgcagcatgg gagcttattt cttcagacac ctaaaattgt gcgagataaa 300
gattattctg tgaccgccaa ttctaagatt gtatgtgtaa ctgcaggagt ccgtcagcaa 360
gaaggggaga gtcggctcaa tctggtgcag agaaatgtta atgtcttcaa a 411

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<210> 708

<211> 418

<212> DNA

<213> Homo sapiens

<400> 708

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ggcaggccga gcaggccgct gccagaaaac gccaccgtga ggagctggag cagagcaagc 60
agggccgtgg gggactcggg gcagagctgc tgccggccca gcgggagctt ggggagctga 120
ttctctctgc gcagaagggt gcagagcagg agcgaacacg tcagcagctg cgggcagaga 180
agggcagcta tgcagagcag ctgagcatgc tgaagaaggc gcattggcctg ctggcagagg 240
agaaccgggg gctgggttag cgggccaaac ttggccggca gtttctgtaa gtggagttgg 300
accaggcccg ggagaagtat gtccaaagat tggcagccgt acgtgctgat gctgagacc 360
gtctggctga ggtgcagcga gaagcacaga gcactgccg ggagctggag gtgatgac 418

```

<210> 709

<211> 422

<212> DNA

<213> Homo sapiens

<400> 709

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gcggagtcgg cggtggtcgt ccagacccag tggtctttac tttttgttg gttgaggttt 60
cacgctagaa ggtggctcag gatgtcttca tcacattttg ccagtcgaca caggaaagat 120
ataagtactg aaatgattag aactaaaatt gctcatagga aatcactgtc tcaagaaaga 180
aatagacata aggaatacga acgaaataga cactttgggt tgaagatgt aaacattcca 240
accttggaa gtagaattct tgttgattta gatgagacat ctcaagggtt tgtccagaaa 300
aagaccaatg ttaagccaag ggcaatgaaa actattctag gtgatcaacg aaaaacagatg 360
ctccaaaat aaacaaagaa aaagcaactt caaaaattga aagacgagag agaaaaagct 420
aa 422

```

<210> 710

<211> 424

<212> DNA

<213> Homo sapiens

<400> 710

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gcgcccagcg cgtaccgctg cggccggggg attggggcgg ggtctccacc gccagccgag 60
gggagcggcg tccgctcggc cctgcttttt gcgacctggc cgtcagcccc acgtcggcgg 120
cctggagggg cgaagaggac gaggggggca aggtctcctc cggggacatt ggtcctcgtg 180

```

```

attatcaaga gttttgagtt gacattgaat ccagggtgag gatggaaggt gtggaactta 240
aagaagaatg gcaagatgaa gattttccga tacctttacc agaagatgat agtattgaag 300
cagatatact agctataact ggaccagagg accagcctgg ctactagaa gttaatggaa 360
ataaagttag aaagaaacta atggctccag acattagcct gacactggat cctagttagt 420
gtctc
424

```

<210> 711

<211> 425

<212> DNA

<213> Homo sapiens

<400> 711

```

gtctcgccccc cttttcctac actttcctct tctcccgac cggaggagcc gctctttccg 60
cgccgtgcat tctggggccc gaggtcgagc cgcgcgctgc cgccgtcgcc tgagggaagc 120
gagaagaggg cgccagccga gagaaaaagc ggagtcgcca ccggagagaa gtgcactccc 180
tagcagcagg cgcgccagga gagggccgccc caccagttcg cccgtccccc tgcccgttc 240
acaatgcagc ctgcttctgc aaagtggtag gatcgaaggg actatgtctt cattgaattt 300
tgtgttgaag acagtaagga tgttaattga aattttgaaa aatccaaact tacattcagt 360
tgtctcggag gaagtgataa ttttaagcat ttaaatgaaa ttgatctttt tcactgtatt 420
gatcc
425

```

<210> 712

<211> 425

<212> DNA

<213> Homo sapiens

<400> 712

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ggtttttccg tgattctgat gagctcaaga gttgggtcaa tgagaagatg aaaactgcc 60
cagatgaagc ttataaagat ccatccaacc tacaaggaaa agtacagaag ctcagggtt 120
ttgaggtcga gctctcagca aaccagagcg gaattgatgc cttggagaaa gtcggccaaa 180
agctgattga tgtcaaccac tatgccaaag atgaagtggc agctcgtatg aatgaggtga 240
tcagttttgtg gaagaaactg ctaggagcca ctgaactgaa aggaataaag cttcgtgaag 300
ccaaccagca acagcaattt aatgcgaatg ttgaggatat tgaattgttg ctatgtgaag 360
tagaaggcca cttggcttcg gatgattacg gcaaatgctt taccaatgtg cagaacctcc 420
agaag
425

```

<210> 713

<211> 423

<212> DNA

<213> Homo sapiens

<400> 713

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gcgcacaaaa tggacatgtc totggacgac atcattaaac tgaaccggag ccagcgaggc 60
ggccggggcg ggggcccggg ccgggctccc agggggcgcc cggcggtggg 120
gocgagggcg ccgcgcgagt gaatcgaggc ggcggggccc tccgggaacc gcggccatc 180
gcgcggcgcg ccgcggcgcg agggcgccag aaccgacggc cgcctacag caggccaaaa 240
caacttcccg acaagtggca gcacgatctt ttgcacagtg gcttcggcgg tggcgccggc 300
gtggagacag gtgggaaact gctggtgtcc aatctggatt ttggagtcct agacgccgat 360
attcagggaac tctttgctga atttggaaac ctgaataagg cggctgtgca ctatgatgc 420
tct
423

```

<210> 714

<211> 425

<212> DNA

<213> Homo sapiens

<400> 714

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gcggcagtag aagatggtga aagaacaac ttactacat gttttggggg tcaaacccaa 60

```

```

tgctactcag gaagaattga aaaaggctta taggaaactg gccttgaagt accatcctga 120
taagaaccca aatgaaggag agaagtttaa acagatttct caagcttacg aagttctctc 180
tgatgc aaag aaaagggaat tatatgacaa aggaggagaa caggcaatta aagagggtgg 240
agcaggtggc ggttttggct ccccatgga catctttgat atgtttttt gaggaggagg 300
aaggatgcag agagaagga gaggtaaaaa tgtgtacat cagctctcag taaccctaga 360
agacttatat aatggtgc aaagaaaact ggctctgc aaagaatgtga tttgtgacaa 420
atgtg

```

<210> 715

<211> 423

<212> DNA

<213> Homo sapiens

<400> 715

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gatcatatag taaaaccacg cccatgacc ctaacagggg ccctctcagc cctcctaagt 60
acctccggcc tagccatgtg atttcaactc cactccataa cgctctcact actaggccta 120
ctaaccaaca cactaaccat ataccaatga tggcgcatg taacacgaga aagcacatac 180
caaggccacc acacaccacc tgtccaaaaa ggccttcgat acgggataat cctattttatt 240
acctcagaag tttttttctt cgcaggattt ttctgagcct ttaccactac cagcctagcc 300
cctaccaccc aattaggagg gcactggccc ccaacaggca tcaccccgct aaatccctca 360
gaagtcccac tcctaaacac atccgtatta ctgcgcatcg gagtatcaat cacctgagct 420
cac

```

<210> 716

<211> 424

<212> DNA

<213> Homo sapiens

<400> 716

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gcggcgccgc ggagagacgc agcggagggt ttctctgggt cggaccaccg cggccggatg 60
gtgaaatcct cctgcagcgc gatcctcaat agccactgct tcgccagaga gaaggaaggg 120
gataaaccca gcgccaccat ccacgccagc cgcaccatgc cgctcctaag cctgcacagc 180
cgccggcgga cgacagtgga gaggttccag gtctccctcc actgctgtag taaccgggt 240
ccggggccctc ggtggtgctc ctgatgcccc tcacccaccc ctgaagatcc cagggtggcg 300
agggaatagt cagaggatgc acaatctttc agctaactta ttctactccg atgatcggt 360
gaatgtaaca gaggaactaa cgtccaacga caagacgagg attctcaacg tcagtccagg 420
ctca

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<210> 717

<211> 424

<212> DNA

<213> Homo sapiens

<400> 717

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ggcgagctag ggagcgccgc ttgaggagg cggggccgcc ccgcaggccc gccagtgtcc 60
tcagctgcct ccgcgcgcga aagtcaaac ccgacacccg ccggcgccgc ggtgagctca 120
ctagctgacc cggcaggtca ggaatctggct tagcgccgcc gtgcgcgac 180
ccgtggccgc ctccagccc tctttgcgg acgagctctg ggcgcgcaca agactaagg 240
atggccacc cgcgaagag aagctgccc tctttctcag ccagctctga ggggaccgcc 300
atcaagaaaa tctccatcga agggaacatc gctgcaggga agtcaacatt tgtgaatc 360
cttaaacat tgtgtgaaga ttgggaagtg gttcctgaac ctgttgccag atggtgcaat 420
gttc

```

<210> 718

<211> 425

<212> DNA

<213> Homo sapiens

<400> 718
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 ctcccggctt ggggtggcgc gccgtgccct cgttttggcc tcggaacgcg gctcgaaatgg 120
 caagccaaaa ttcttccggt atagaatatg atacctttgg tgaactaaag gtgccaaatg 180
 ataagtatta tggcgccacg accgtgagat ctacgatgaa cttaagattt gggagtgta 240
 cagaacgcgt gccaaaccca gttattaaag cttttggcat cttgaagcga gcggccgctg 300
 aagtaaacca ggattatggt cttgatccaa agatttgtaa tgcaataatg aaggcagcag 360
 atgaggtagc tgaaggtaaa ttaaatgacg attttcctct cgtgggtatg cagactggat 420
 cagga 425

<210> 719
 <211> 413
 <212> DNA
 <213> Homo sapiens

<400> 719
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 tggacgggtt ggccaccatc ccatttgatc aggtcaacga tgactattgc gactgcaaatg 120
 atggctctga cgagccaggg accggtgcct gtccataatg cagcttccac tgcaccaaca 180
 ctggctataa gccctgtgat atccctcca accgggtcaa cgatgggtgt tgtgactgtt 240
 gcgatggaac agacgagtac aacacggcgg tcattctgtga gaacacctgc aaagagaagg 300
 gccgtaaagg gagagagtc ctcgacgaga tggccgaggt caccgcgcga gggttccctg 360
 tgaagaagat ccttattgag gactgggaaga aggcacggga ggagaaacag aaa 413

<210> 720
 <211> 414
 <212> DNA
 <213> Homo sapiens

<400> 720
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 acaaaaaaga gacctgcctt caagtgaagg gagaggagat gccggcagga aaagaccagg 120
 aggcagcagc gggctctggt ccttcagggtt ccaagatgga caggaggggc ccagtacctc 180
 gcaccaaggc cagtggaaca gagcacaata agaaggaac caaggaaggg acaaatgggt 240
 atattgttcc agaacgaggg gacatcgagc ataagaagcg gaaagctaag gaggcagccc 300
 cagcccacc caccgaggaa gacatctggt ttgacgacgt ggacccagcg gatattcgaag 360
 ctgccatagg tccagaggcg gccaaagatg cgaggaaaca gttgggtcag agcg 414

<210> 721
 <211> 414
 <212> DNA
 <213> Homo sapiens

<400> 721
 ggcggcgagc gccgggttgg gccgcgcgc gccggcagcg gcgccccggg ccggaggcgg 60
 ccagcccgag cgggcatgtt ccaccgccat tcagaacccc ctcaagtgcg gaggactctt 120
 accgcgagcg catcgagcac tgccgcagtt acaacgcgcg cctgtgcgac gagcgcagcc 180
 tgcgactgcc ctctctcgac tcgcagacgg gcgtggccca gaacaactgc tacatctgga 240
 tgggaagagc ccaccgcgg ccgggtttgg ccccgggaca gatttacacg taccocgcc 300
 gctgttgagc gaagaaacgg agactcaaca tctggaggga ccccgagact agccctcgcg 360
 agtacaagat cgactgtgaa gcacccctga agaaggaggg tggcctcccg gaag 414

<210> 722
 <211> 412
 <212> DNA
 <213> Homo sapiens

<220>

<221> misc_feature
 <222> 262,396
 <223> n = A,T,C or G

<400> 722
 gccagcctct ggtaaccatc cttctacttt ctatgtccat gaattaaatt gtottgattt 60
 ttagatccca taagttagaa catgcagtggt ttgactttct gtgccttatt tgacttaaca 120
 tagtgacctc ccattttcat ctgtgttggt gcaaatgaca ggaatctcatt cttttttatt 180
 gctgaatagt actccactgt gtatgtgtac cacatttctt tatccattca tctgtttgatg 240
 ggacaactga gtctcttcc anacttttgc ctattgtgaa caatgctgca acaaacagta 300
 tatgagaatg cagatatctt ccatatgttg attcctttct tttgggtata taccagcag 360
 tgggattgct ggatcatatg gagctttatt tttagnnttt tgaggacctc ca 412

<210> 723
 <211> 451
 <212> DNA
 <213> Homo sapiens

<400> 723
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 cctgttcaag ccagccccaa cctgccggta ccagtaccag tacttccacc agcaactatct 120
 caagcgacga caatggcaaa cgtgcactcg ccagtggcca gcagccagct gcatcccggt 180
 acctgccttc tgaggtgctt ccacgcttcc gccagcaaga acagaaagcag ctactaaaga 240
 gaggccagcc attgcctacg gggactctaa ccagtgtgag cccaaccagc ggtgctgggc 300
 ctgcaggggt aagcccacct cccctacctg gagccggaac acagcatcat cccagtaagc 360
 tccaaccaga tctcagtcac agtggtattg cagatcatia tgaataatcc cactggggac 420
 agcagcctac ttacagaagc gaagccaact g 451

<210> 724
 <211> 425
 <212> DNA
 <213> Homo sapiens

<400> 724
 gggtgattca gccctgactt ctcaaaaaag actgcacaga ggaggaggca gcgaacccc 60
 acttcagctt cttaggactc tgcacttccc cagaaggaag aattaaaaat gaatatgttc 120
 aaggaaagca tgaccttcaa ggacgtggct gtggccttca cggaggaggga attggggctg 180
 ctggggcctg cccagagaaa gctgtaccga gatgtgatgg ttggagaactt taggaaacctg 240
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 ctttggataa tgacgacagc aaccggaaga caggggaatt taggagagaa aaatcaaagt 360
 aagttaatta ctgttcaaga cagagaatca gaagaagagc tttcttgttg gcaaatctgt 420
 caaca 425

<210> 725
 <211> 421
 <212> DNA
 <213> Homo sapiens

<400> 725
 ggagcagcca acgccccggg gaacaccggg ccccgagctc ggtcccgcgc ccgaggatcc 60
 tgcacggggc tagatggctg cgtcgggggc cgtcggagcc gtgagcgggc gctagggccc 120
 cgagccccgc ccggcccttc ctccagcgcc ctcggaagcc cgcagaagcc cgtgcctcc 180
 ctagcccgca aaaacatata gatttttctc gctgtggcaa cggggagctc ctgatagatc 240
 ctctgctcca ataggaact ccggccttcc ctgccctgac ctggaacctt ctgggaaggg 300
 cttgcagaag taaagtgcgc gcctcttgc gcttccgaac ggaggcaacg aaggcctggt 360
 gggaagtaag gtcccttttg ttcccgacag ggtggcgaac actttgggcg ctgcatgctt 420
 g 421

<210> 726
 <211> 413
 <212> DNA
 <213> Homo sapiens

<400> 726
 gagatccatc ccggaagtgc ttactcgtcg tctccatgag ccggttcccg gccgtcttag 60
 agccaaggcg cgaaggctcg agtgagaggt agagctggag gggaccctaa gcgcctccg 120
 cccgggacgt gagccgtcg gccaccggg ctgagaccgg cgccatcatg ctgcttctgc 180
 caagcgcgcg ggaaggccgg ggcaccgccca tcaccacgcg tctgacctct gccctacac 240
 tctgtcaagt tgaacctgtg ggaagatggt ttgaagcttt tgtaagag agaaacagaa 300
 atgcttctgc ctcttttcag gaactggagg ataagaaaga gttatccgag gaatcagaag 360
 atgaagaatt gcagttggaa gaggtttccca tgctgaaaac acttgatccc aaa 413

<210> 727
 <211> 414
 <212> DNA
 <213> Homo sapiens

<400> 727
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 ccaagaattc atctctgaag ttacagaccc ctgtgtctgt tccctgcgcc gctgggctga 120
 ggaatatattg gagaactcag aggagaagct gtggctggga gaacctgagg gaacagccac 180
 cgatcgcgtgg tatgatgaat atcatcctga ggaggatctg cagcacacgg ccagtgactct 240
 tgtggccaaa gtggatgacc ccaaattggc taattctgag ggtacatcag atgacctgggt 300
 tgaccagttc acaagaccag taaacacatc tgccttgat atggagtttg aacgagccaa 360
 gtcagctata gaagtctgat gtcgatttct gggacaagtt gcaggcagag ttgg 414

<210> 728
 <211> 2170
 <212> DNA
 <213> Homo sapiens

<400> 728
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 cgccgcgcag cgcccgaccg acacgcggcg gggcagaagc cgcccgctct ccggaagtgc 120
 ataacagaat tcattgaagt ggagaatttt taagaagagt aacaaaaaga gaaagaaat 180
 gccgaagaca atcaacgtaa gagtaactac aatggatgct gagctggaat ttgccattca 240
 gcccaataca actggcaaac aactttttga ccagtggtgt aaaaacagtg gtttgcgtga 300
 ggcttgggtt ttgggctgc agtatgtaga cagcaaaagt tatttcatc ggcttaaac 360
 aaataaaaaa gtaacacagc aggatgttaa aaaaagaaat cctttacagt tcaagtttag 420
 agctaaattc ttctctgaag atgtttctga ggaattaat caagaataaa cccagagact 480
 cttctctctg caagttaaa aagccatctt aaatgatgag atatatgtgc cgccagaaac 540
 tgcagttctt ttggcttctc atgctgtcca agccaagtat ggagattaca ataaagagat 600
 tcataagcca ggctacctgk ctaatgatag actcctaccc cagcgtgtat tggacaacaa 660
 caaactaaca aaagaacagt gggagaagag aatacagaac tggcatgaag aacatagagg 720
 aatgttaagg gaggattcta tgatggaata cctgaagatt gcacagatc tagaattgta 780
 tggagtcaac tattttga aaataataaa aaagggaact gaattgtggc taggtgttga 840
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 caaaaaggca cctgattttt tgtttttatgc acctcgtctg agaattcaata agcggatttt 1020
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 agtacacag atgaaggctc aggctaggga ggagaacat cagaagcagt tggaaagggc 1140
 acaattagag aatgaaaaga agaaaagaga aatagcagaa aaggaaaagg aaagaataga 1200
 acgtgaaaaa gaagagctaa tggaaacctc aaaacaaatt gaagagcaga caattaaagc 1260
 tcagaaagaa ctagaagaac agactcgaaa agctctagaa ctggatcaag aacgaaaacg 1320

agcaaaagaa	gaagcagaac	gacttgaaaa	ggagcgtcga	gctgctgaag	aggcaaagtc	1380
tgccatagca	aaacaagctg	ccgaccagat	gaagaatcag	gagcagctag	cagcagaact	1440
tgtgtaattc	actgcocaa	ttgcacttct	agaggaagcc	aagaagaaaa	aggaagagga	1500
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agagttaaaa	actgtgatgt	ctgccccccc	tccacctcca	ccaccaccag	tcattctctc	1620
aacagaaaaac	gaacatgatg	aacacgatga	gaataatgct	gaagctagt	ctgaatttct	1680
aaatgaaggg	gtaatgaacc	atagaagcga	ggaagaacgt	gtaaccgaaa	cacagaaaaa	1740
tgagctgtgt	aagaagcaac	ttcagggcatt	aagttcagaa	ttagcccaag	ccagagatga	1800
aaocaaagaaa	acacaaaatg	atgttcttca	tgtcgagaat	gttaaaagcag	gcggtgataa	1860
gtacaagact	ctgcgcagaca	ttcgacaagg	caatacaaa	cagcgtatcg	atgagtttga	1920
agcaatgtga	gagctgttat	tttgcataata	tgttcttcac	aagctgaacc	accaacagag	1980
aaaagcaggg	ctttgcagat	atgatggaat	gcattcccacc	ttgccaaggc	acttacacca	2040
gtttgactgt	gctagctaaa	agacaaattt	aaggggagct	cttcaacatt	aaggcagtat	2100
gatatactgc	ttggtttttc	tttttctttt	ggtccaggga	atggagaagt	gtgttccatt	2160
gcctcttttt						2170

<210> 729

<211> 4747

<212> DNA

<213> Homo sapiens

<400> 729

gagaaggaga	aggctgcoaa	gctggagatt	ctgcagcagc	aacttcagg	ggctaataa	60
gcccgggaca	gtgccacagc	ctcagtgaca	caggcccagc	gggagaaggc	agagctgagc	120
cggaaaggtg	aggaactcca	ggcctgtggt	gagacagccc	gccaggaaaca	gcatgaggcc	180
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aaagaaagg	tggcccagga	gaaggaccag	agctccaggc	gtcccaaggc	agctcaaaag	300
tccttgaaag	tcaccaaagg	cagccttgaa	gaggagaagc	gcagggtctg	agatgcccct	360
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<211> 2264

<212> DNA

<213> Homo sapiens

<400> 730

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<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<210> 736

<211> 2768

<212> DNA

<213> Homo sapiens

<400> 736

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<211> 3162

<212> DNA

<213> Homo sapiens

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<210> 738

<211> 633

<212> PRT

<213> Homo sapiens

<400> 738

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```

Lys Ile Ser Gln Pro Val Val Val Val Ala Ile Val Gly Leu Tyr Arg
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```

Thr Gly Lys Ser Tyr Leu Met Asn His Leu Ala Gly Gln Asn His Gly
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Phe Pro Leu Gly Ser Thr Val Gln Ser Glu Thr Lys Gly Ile Trp Met
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```

Trp Cys Val Pro His Pro Ser Lys Pro Asn His Thr Leu Val Leu Leu
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Asp Thr Glu Gly Leu Gly Asp Val Glu Lys Gly Asp Pro Lys Asn Asp
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Ser Trp Ile Phe Ala Leu Ala Val Leu Leu Cys Ser Thr Phe Val Tyr
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Asn Ser Met Ser Thr Ile Asn His Gln Ala Leu Glu Gln Leu His Tyr
      130                     135                     140

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Val Thr Glu Leu Thr Glu Leu Ile Lys Ala Lys Ser Ser Pro Arg Pro
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Asp Gly Val Glu Asp Ser Thr Glu Phe Val Ser Phe Phe Pro Asp Phe
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Leu Trp Thr Val Arg Asp Phe Thr Leu Glu Leu Lys Leu Asn Gly His
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Pro Ile Thr Glu Asp Glu Tyr Leu Glu Asn Ala Leu Lys Leu Ile Gln
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Phe Thr His Ala Arg Thr Lys Thr Leu Arg Glu Gly Ile Thr Val Thr				
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Gly Asn Arg Leu Gly Thr Leu Ala Val Thr Tyr Val Glu Ala Ile Asn				
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Val Pro Arg Lys Gly Val Lys Ala Lys Glu Val Phe Gln Arg Phe Leu				
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	515		520	525

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His Glu Gly Phe Lys Lys Lys Tyr Glu Glu Met Asn Ala Glu Ile Ser
565 570 575

Gln Phe Lys Arg Met Ile Asp Thr Thr Lys Asn Asp Asp Thr Pro Trp
580 585 590

Ile Ala Arg Thr Leu Asp Asn Leu Ala Asp Glu Leu Thr Ala Ile Leu
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Leu Phe Lys Lys His Lys Leu Pro Phe
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<210> 739

<211> 650

<212> PRT

<213> Homo sapiens

<400> 739

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Asn Asn Asn Glu Gln Leu Leu Val Asn Gln Gln Ala Ile Gln Ile Leu
35 40 45

Glu Lys Ile Ser Gln Pro Val Val Val Ala Ile Val Gly Leu Tyr
50 55 60

Arg Thr Gly Lys Ser Tyr Leu Met Asn His Leu Ala Gly Gln Asn His
65 70 75 80

Gly Phe Pro Leu Gly Ser Thr Val Gln Ser Glu Thr Lys Gly Ile Trp
85 90 95

Met Trp Cys Val Pro His Pro Ser Lys Pro Asn His Thr Leu Val Leu
100 105 110

Leu Asp Thr Glu Gly Leu Gly Asp Val Glu Lys Gly Asp Pro Lys Asn
115 120 125

Asp Ser Trp Ile Phe Ala Leu Ala Val Leu Leu Cys Ser Thr Phe Val
130 135 140

Tyr Asn Ser Met Ser Thr Ile Asn His Gln Ala Leu Glu Gln Leu His
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Tyr Val Thr Glu Leu Thr Glu Leu Ile Lys Ala Lys Ser Ser Pro Arg
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<211> 6080

<212> DNA

<213> Homo sapiens

<400> 740

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